CONTRACTORS FOUNDRY INC.

1922 BRANDYWINE STREET PHILADELPHIA 30, PA.

PLANT AT OAKS, PA.

IRON CASTINGS FOR CONSTRUCTION

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IRON CASTINGS ...for CONSTRUCTION

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VICTOR IRON WORKS

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Individual Data Sheets are available for all items shown here as well as for those listed below.

ADJUSTING RINGS TO RAISE LEVEL OF EXISTING MANHOLES FOR HIGHWAY RESURFACING
BOLLARDS
BRIDGE SCUPPERS
BRIDGE RAILING-POSTS, FLANGES AND SLEEVES
CATCH BASIN AND INLET FRAMES AND GRATINGS
CATCH BASIN TRAPS
CHECK, SLIDE AND LIFT VALVES
CLEATS
DRAINAGE CASTINGS
FLAGPOLE BASES
FLOOR CLEANOUT BOXES
FLOOR GRIDS
HIGH IMPACT CASTINGS FOR AIRPORTS
HIGHWAY CASTINGS
LOCKER ROOM STANDARDS
MANHOLE FRAMES AND COVERS
MANHOLE STEPS, CAST AND W.I. GALVANIZED
PARK AND LAWN DRAINS
POSTS, BASES AND CAPS
PULLING IRONS, W.I. GALVANIZED
SERVICE BOXES
SEWER CASTINGS
SHEAR GATES
STADIUM SEAT BRACKETS
STEP DRAINS
STOP LOG GUIDES AND GROOVES
TRACK DRAINS
TRENCH DRAINS

GUARANTEE

Castings shown on pages 2, 3, 4, 5 and 6 are guaranteed for 10 years against breakage if not submitted to heavier loading than specified. Replacements will be made without charge F.O.B. nearest freight station to job site.

Castings Packed for Export When Required

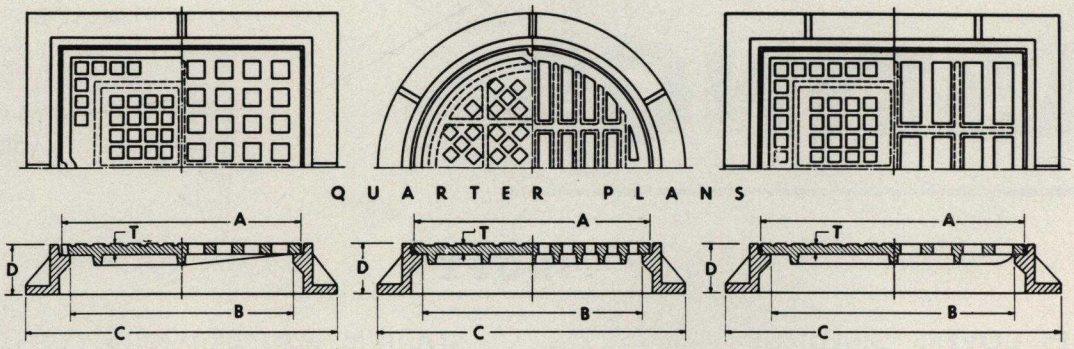
CONTRACTORS FOUNDRIES CORP.

*SUBURBAN STATION BUILDING • PHILADELPHIA 3, PA. • LOcust 7-7068

FRAMES — COVERS — GRATINGS

HIGHWAY LOADING

PIT CONSTRUCTION



SQUARE					PATTERN NOS.		
					SOLID COVER	GRATINGS	
A	B	C	D	T		FLAT	CONCVD.
12	10	20	4	1¼	6101	6102	
15	13	24	4	1¼	6103	6104	
18	16	27	4	1¼	6105	6106	
22	20	34	6	1½	6107	6108	
24	22	36	6	1½	6109	6110	6111
24	22	40	8	1¾	6112	6113	6114
30	28	42	9¼	1¾	6115	6116	6117
36	34	48	8	1¾	6118	6119	
42	40	54	8	1¾	6120	6121	
48	46	60	8	1¾	6122	6123	

BEARING SURFACES MACHINED IF REQUIRED
LETTERED AS SPECIFIED

ROUND					PATTERN NOS.		
					SOLID COVER	GRATINGS	
A	B	C	D	T		FLAT	CONCVD.
12	10	20	6	1¼	6001	6002	
15	13	24	7	1¼	6003	6004	
18	16	26	8	1¼	6005	6006	6007
20	18	32	8	1⅜	6008	6009	
22	20	34	8	1⅜	6010	6011	
24	22	36	8	1⅜	6012	6013	6014
26	24	36	8	1½	6015	6016	6017
27	25	39	8	1½	6018	6019	
30	28	42	8	1½	6020	6021	6022
32	30	44	6	1½	6023	6024	6025
32	30	44	8	1½	6026	6027	6028
33	31	45	8	1½	6029	6030	
36	34	48	8	1½	6031	6032	6033
38	36	50	8	1½	6034	6035	
42	40	54	8	1¾	6036	6037	
48	46	60	8	1¾	6038	6039	

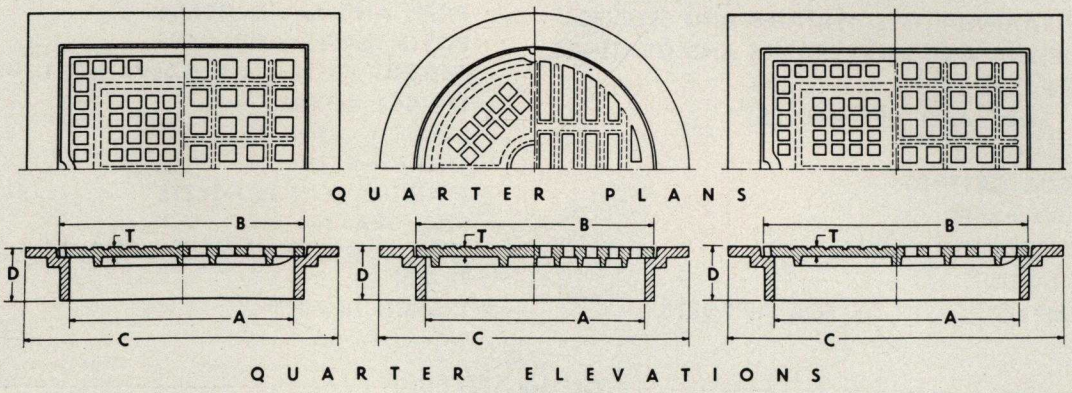
RECTANGULAR					PATTERN NOS.	
A	B	C	D	T	COVER	GRATE
12x18	11x17	18x24	4	1⅜	6201	6202
12x24	11x23	18x30	4	1⅜	6203	6204
18x24	17x23	24x30	4	1½	6205	6206
18x30	17x29	24x36	4	1½	6207	6208
18x36	17x35	25x43	4½	1½	6209	6210
24x30	23x29	31x37	4½	1½	6211	6212
24x36	23x35	31x43	4½	1½	6213	6214
*24x48	23x47	31x55	4½	1½	6215	6216
30x42	29x41	38x50	4½	1½	6217	6218
*30x48	29x47	38x56	6	1½	6219	6220
*36x48	35x47	48x56	6	1½	6221	6222

*COVERS & GRATES IN 2 SECTIONS

TYPES K-2 & B-2 LOCKING AVAILABLE—SEE PAGE 5
LIFT HANDLES FURNISHED WHEN SPECIFIED

HIGHWAY LOADING

SLAB CONSTRUCTION



SQUARE					PATTERN NOS.	
A	B	C	D	T	COVER	GRATE
12	14	18	4½	1	6400	6401
15	17	21	4½	1¼	6402	6403
18	20	24	4½	1¼	6404	6405
20	22	26	4½	1¼	6406	6407
24	26	31	4½	1½	6408	6409
27	29	34	4½	1½	6410	6411
30	32	37	4½	1½	6412	6413
36	38	43	4½	1¾	6414	6415
42	44	49	4½	1¾	6416	6417
48	50	55	4½	1¾	6418	6419

ROUND				PATTERN NOS.					
				D—4½		D—6		D—8	
A	B	C	T	COVER	GRATE	COVER	GRATE	COVER	GRATE
6	7¾	12	1	6300	6301	6302	6303	6304	6305
9	10¾	15	1	6306	6307	6308	6309	6310	6311
12	13¾	18	1	6312	6313	6314	6315	6316	6317
15	16¾	21	1	6318	6319	6320	6321	6322	6323
18	19¾	26½	1¼	6324	6325	6326	6327	6328	6329
20	21¾	28½	1¼	6330	6331	6332	6333	6334	6335
24	25¾	32½	1½	6336	6337	6338	6339	6340	6341
27	30	36	1½	6342	6343	6344	6345	6346	6347
30	31¾	38½	1½	6348	6349	6350	6351	6352	6353
36	38	44½	1¾	6354	6355	6356	6357	6358	6359
42	44	50½	1¾	6360	6361	6362	6363	6364	6365

RECTANGULAR					PATTERN NOS.	
A	B	C	D	T	COVER	GRATE
12x18	14x20	17x23	4½	1⅜	6500	6501
12x24	14x26	17x29	4½	1⅜	6502	6503
18x24	20x26	24x30	4½	1½	6504	6505
18x30	20x32	24x36	4½	1½	6506	6507
20x30	22x32	25x35	4½	1½	6508	6509
24x30	26x32	31x37	4½	1½	6510	6511
24x36	26x38	31x43	4½	1½	6512	6513
*24x48	26x50	31x55	4½	1½	6514	6515
30x42	32x44	37x49	4½	1½	6516	6517
*30x48	32x50	37x55	4½	1½	6518	6519
*36x48	38x50	43x55	4½	1½	6520	6521

*COVERS & GRATES IN 2 SECTIONS

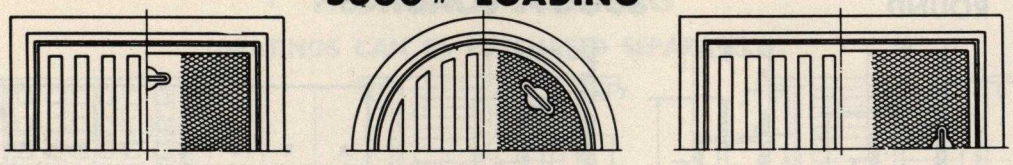
BEARING SURFACES MACHINED IF REQUIRED
LETTERED AS SPECIFIED

TYPES K-2 & B-2 LOCKING AVAILABLE—SEE PAGE 5
LIFT HANDLES FURNISHED WHEN SPECIFIED

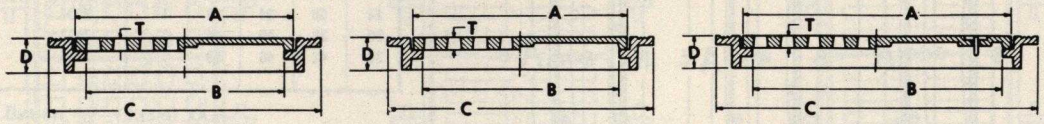
CONTRACTORS FOUNDRIES CORP.
SUBURBAN STATION BUILDING, PHILADELPHIA 3, PA.

FRAMES — COVERS — GRATINGS

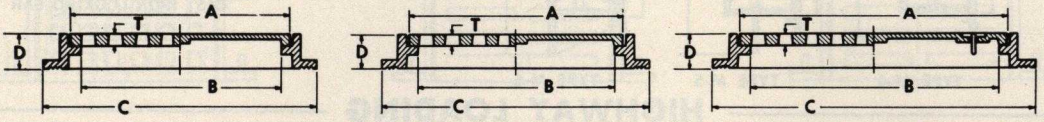
5000# LOADING



QUARTER PLANS



QUARTER ELEVATIONS



SPECIFY IF FRAMES ARE TO BE USED FLANGE UP OR FLANGE DOWN

SQUARE					PATT. No.	
A	B	C	D	T	COVER	GRATE
8	7¼	11	2½	¾	5101	5102
10	9	13	2½	¾	5103	5104
12	11	15¼	2½	¾	5105	5106
14	13	17½	2¾	⅞	5107	5108
16	15	19½	3	1	5109	5110
18	17	21¾	3	1	5111	5112
20	19	24¼	3	1	5113	5114
24	23	28½	3	1	5115	5116
28	27	33	3	1	5117	5118
30	28¾	35	3¼	1	5119	5120
*36	34¾	41	3¼	1	5121	5122

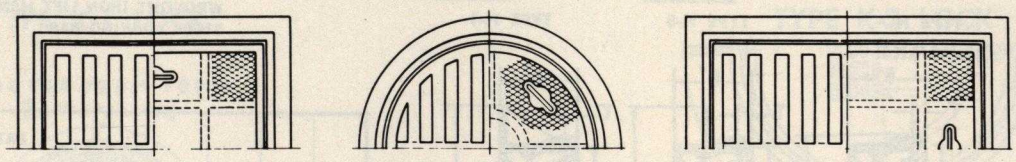
*COVERS & GRATES ARE IN 2 SECTIONS

TYPES K-1 AND B-1 LOCKING AND H-2 HINGING AVAILABLE—SEE PAGE 5.

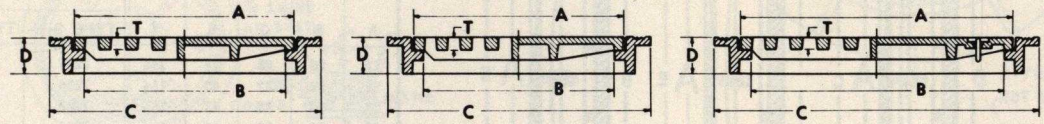
ROUND					PATT. No.	
A	B	C	D	T	COVER	GRATE
8	7	10½	2½	¾	5001	5002
10	9	12¾	2½	¾	5003	5004
12	10½	15	2½	¾	5005	5006
14	13	17½	2¾	⅞	5007	5008
16	15	19½	2¾	⅞	5009	5010
18	17	21¾	3	1	5011	5012
20	19	24	3	1	5013	5014
22	21	25½	3	1	5015	5016
24	23	28½	3	1	5017	5018
24	23	28½	4	1	5019	5020
30	29	34¾	3¼	1	5021	5022
36	35	41	3¼	1	5023	5024
42	40½	46	3½	1¼	5025	5026

RECTANGULAR					PATT. No.	
A-A	B-B	C-C	D	T	COVER	GRATE
12x16	11x15	15½x19½	2½	⅞	5201	5202
13x19	12x18	16½x22½	3	1	5203	5204
14x24	13x23	17½x27½	3	1	5205	5206
18x24	17x23	21¾x27¾	3	1	5207	5208
18x30	17x29	21¾x33¾	3	1	5209	5210
18x36	17x35	21¾x39¾	3	1	5211	5212
24x30	22¾x28¾	28x34	3	1	5213	5214
24x36	22¾x34¾	28½x40½	3	1	5215	5216
*24x48	22¾x46¾	29x53	3¼	1	5217	5218
27x30	26x29	32x35	4	1	5219	5220
*30x36	28¾x34¾	35x41	3¼	1	5221	5222
30x42	28¾x40¾	35x47	3¼	1	5223	5224
*36x60	34¾x58¾	41x65	3¼	1	5225	5226
*42x60	46¾x58¾	47x65	3¼	1	5227	5228

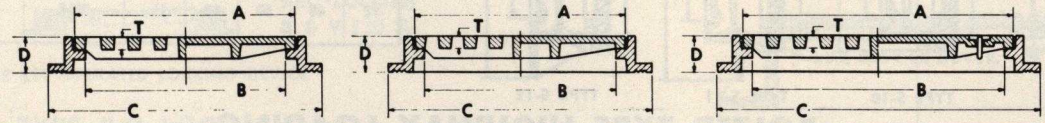
8000# LOADING



QUARTER PLANS



QUARTER ELEVATIONS



SPECIFY IF FRAMES ARE TO BE USED FLANGE UP OR FLANGE DOWN

SQUARE					PATT. No.	
A	B	C	D	T	COVER	GRATE
8	7¼	11	2½	¾	5401	5402
10	9	13	2½	¾	5403	5404
12	11	15¼	2½	¾	5405	5406
14	13	17½	2¾	⅞	5407	5408
16	15	19½	3	1	5409	5410
18	17	21¾	3	1	5411	5412
20	19	24¼	3	1	5413	5414
24	23	28½	3	1	5415	5416
28	27	33	3	1	5417	5418
30	28¾	35	3¼	1	5419	5420
*36	34¾	41	3¼	1	5421	5422

ROUND					PATT. No.	
A	B	C	D	T	COVER	GRATE
8	7	10½	2½	¾	5301	5302
10	9	12¾	2½	¾	5303	5304
12	10½	15	2½	¾	5305	5306
14	13	17½	2¾	⅞	5307	5308
16	15	19½	2¾	⅞	5309	5310
18	17	21¾	3	1	5311	5312
20	19	24	3	1	5313	5314
22	21	25½	3	1	5315	5316
24	23	28½	3	1	5317	5318
24	23	28½	4	1	5319	5320
30	29	34¾	3¼	1	5321	5322
36	35	41	3¼	1	5323	5324
42	40½	46	3½	1¼	5325	5326

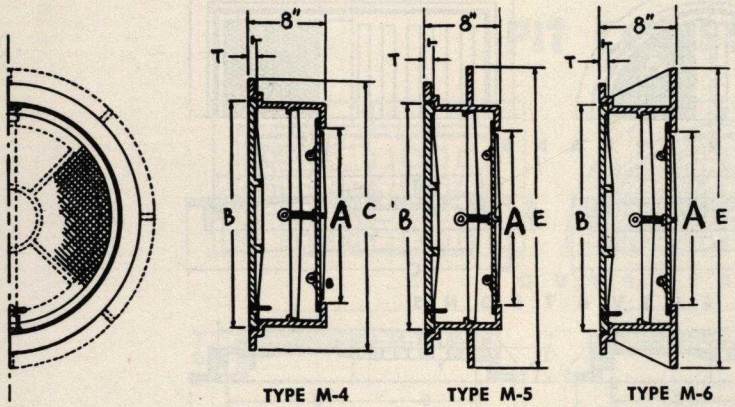
RECTANGULAR					PATT. No.	
A-A	B-B	C-C	D	T	COVER	GRATE
12x16	11x15	15½x19½	2½	⅞	5501	5502
13x19	12x18	16½x22½	3	1	5503	5504
14x24	13x23	17½x27½	3	1	5505	5506
18x24	17x23	21¾x27¾	3	1	5507	5508
18x30	17x29	21¾x33¾	3	1	5509	5510
18x36	17x35	21¾x39¾	3	1	5511	5512
24x30	22¾x28¾	28x34	3	1	5513	5514
24x36	22¾x34¾	28½x40½	3	1	5515	5516
*24x48	22¾x46¾	29x53	3¼	1	5517	5518
27x30	26x29	32x35	4	1	5519	5520
*30x36	28¾x34¾	35x41	3¼	1	5521	5522
30x42	28¾x40¾	35x47	3¼	1	5523	5524
*36x60	34¾x58¾	41x65	3¼	1	5525	5526
*42x60	46¾x58¾	47x65	3¼	1	5527	5528

*COVERS & GRATES ARE IN 2 SECTIONS

TYPES K-1 AND B-1 LOCKING AND H-2 HINGING AVAILABLE—SEE PAGE 5.

WATERTIGHT FRAMES & COVERS

ROUND — 8000# LOADING



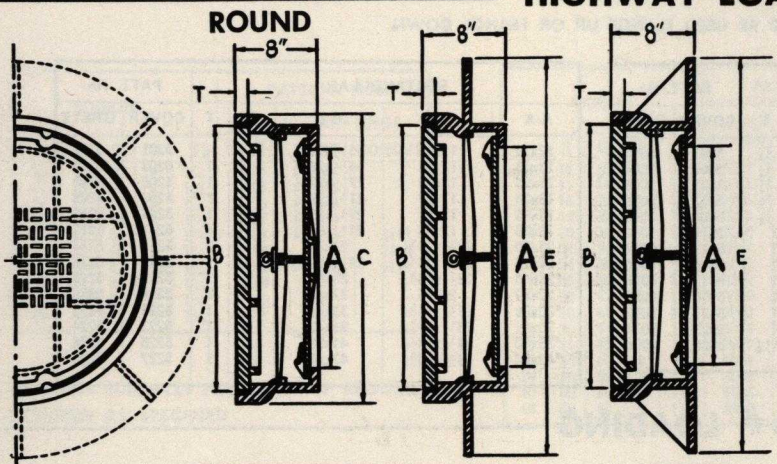
TYPE M-4 TYPE M-5 TYPE M-6

A	B	C	E	T	PATTERN NOS. TYPE M-4	TYPE M-5	TYPE M-6
18	24	28	32	1	7001	7002	7003
24	30	34	38	1	7004	7005	7006
30	36	40	44	1¼	7007	7008	7009
36	42	46	50	1¼	7010	7011	7012

FLAX GASKET—⅝" ROUND
BRONZE EYEBOLT
CAST IRON LOCKING BAR

HIGHWAY LOADING

ROUND

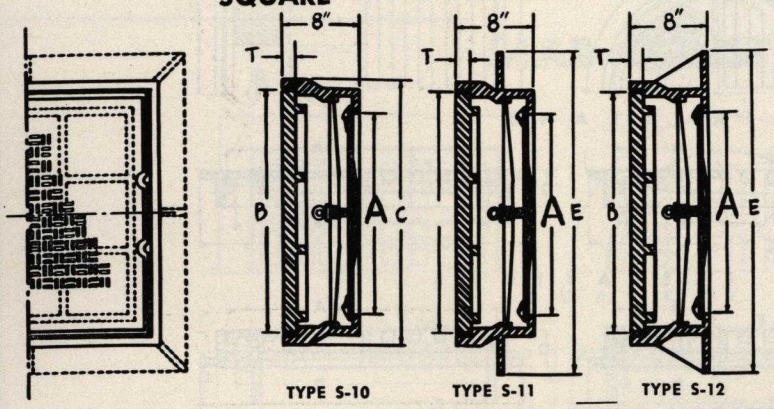


TYPE H-7 TYPE H-8 TYPE H-9

A	B	C	E	T	PATTERN NUMBERS ROUND TYPE H-7	TYPE H-8	TYPE H-9
21	26	28	37	1⅜	7101	7102	7103
24	30	32	40	1½	7104	7105	7106
27	33	35	43	1½	7107	7108	7109
30	36	38	46	1½	7110	7111	7112
36	42	44	52	1¾	7113	7114	7115
42	48	50	58	1¾	7116	7117	7118

RUBBER GASKET—¾" ROUND
BRONZE EYEBOLT
WROUGHT IRON LIFT HANDLES
STEEL LOCKING BAR

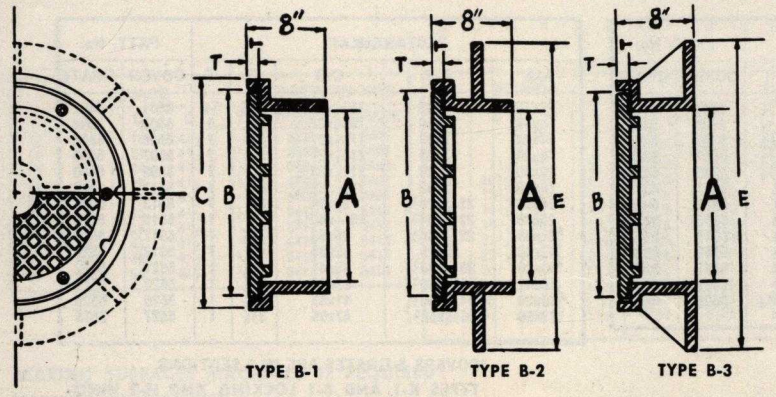
SQUARE



TYPE S-10 TYPE S-11 TYPE S-12

A	B	C	E	T	PATTERN NUMBERS SQUARE TYPE S-10	TYPE S-11	TYPE S-12
21	26	28	37	1⅜	7201	7202	7203
24	30	32	40	1½	7204	7205	7206
27	33	35	43	1½	7207	7208	7209
30	36	38	46	1½	7210	7211	7212
36	42	44	52	1¾	7213	7214	7215
42	48	50	58	1¾	7216	7217	7218

BOLTED TYPE HIGHWAY LOADING



TYPE B-1 TYPE B-2 TYPE B-3

A	B	C	E	T	PATTERN NOS. TYPE B-1	TYPE B-2	TYPE B-3
6	9¾	11¾	20	1	7301	7302	7303
9	12¾	14¾	23	1	7304	7305	7306
12	15¾	17¾	26	1¼	7307	7308	7309
15	18⅞	21	29	1¼	7310	7311	7312
18	21⅞	24	32	1¼	7313	7314	7315
20	23⅞	26	34	1½	7316	7317	7318
24	27⅞	30	38	1½	7319	7320	7321
27	30⅞	33	41	1½	7322	7323	7324
30	33⅞	36	44	1½	7325	7326	7327
36	39⅞	42	50	1¾	7328	7329	7330
42	45⅞	48	56	1¾	7331	7332	7333
48	51⅞	54	62	1¾	7334	7335	7336

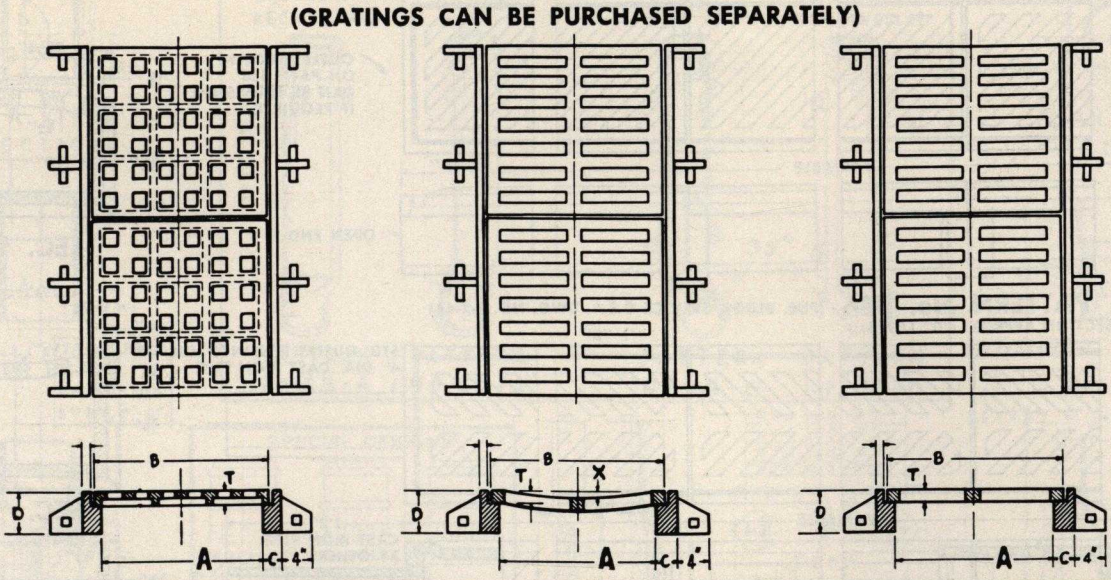
RUBBER GASKET—¼" THICK
BRONZE CAP SCREWS
BEARING SURFACES MACHINED

CONTRACTORS FOUNDRIES CORP.
SUBURBAN STATION BUILDING, PHILADELPHIA 3, PA

TRENCH GRATINGS & FRAMES

HIGHWAY LOADING

(GRATINGS CAN BE PURCHASED SEPARATELY)

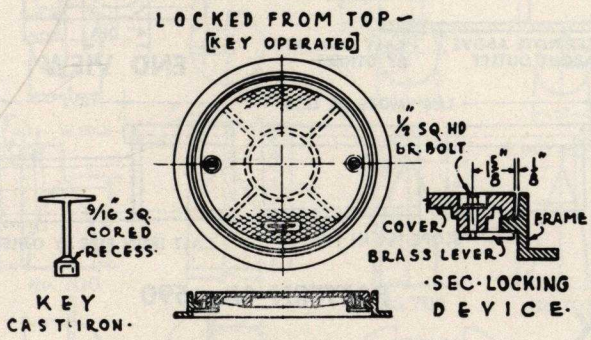


PATT.	A	B	C	D	T	Openings	PATT.	A	B	C	D	T	X	Openings	PATT.	A	B	C	D	T	Openings
*949	6	8	1⅝	4	2	1x2	*959	6	8	1⅝	3½	1½	¾	1x2	*969	6	8	1⅝	3½	1½	1x2
*950	8	10	1⅝	4	2	1x2	*960	8	10	1⅝	3½	1½	¾	1x3	*970	8	10	1⅝	3½	1½	1x3
*951	10	12	1⅝	4	2	1x2	*961	10	12½	1⅞	3½	1½	¾	1x4	*971	10	12½	1⅞	3½	1½	1x4
*952	12	14	1¾	4¼	2¼	1x2	*962	12	14½	2	3¾	1¾	1	1¼x5	*972	12	14½	2	3¾	1¾	1¼x5
*953	15	17	1¾	4¼	2¼	1¼x2¼	*963	15	18	2¼	3¾	1¾	1¼	1¼x6½	*973	15	18	2¼	3¾	1¾	1¼x6½
954	18	20	1⅞	4½	2½	1¼x2¼	964	18	21	2⅜	3¾	1¾	1½	1½x8	974	18	21	2⅜	3¾	1¾	1½x8
955	24	26	1⅞	4½	2½	2x2½	965	24	27	2⅜	4	2	2	1¾x10¾	975	24	27	2⅜	4	2	1¾x10¾
956	30	32	2⅛	5	3	2x3	966	30	34	3⅛	5	2½	2¼	2x13¼	976	30	34	3⅛	5	2½	2x13¼

NOTE: * GRATINGS ARE 4'0" LONG OR SHORTER AS REQUIRED.
ALL OTHERS ARE 2'0" LONG OR SHORTER AS REQUIRED.
ALL FRAME SECTIONS ARE 4'6" LONG OR SHORTER AS REQUIRED.

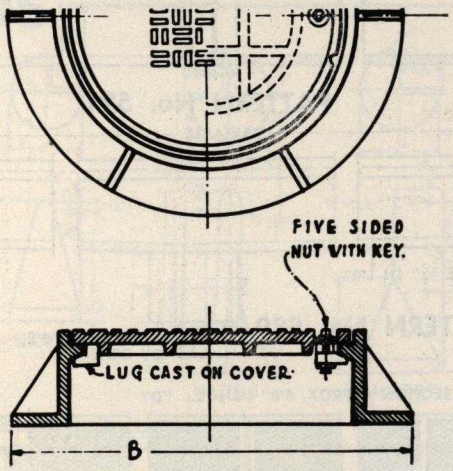
HINGING & LOCKING DETAILS

TYPE K-1 LOCK

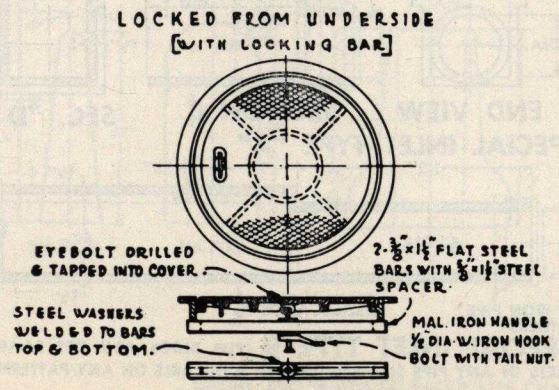


DOUBLE KEY OPERATED LOCKING DEVICE

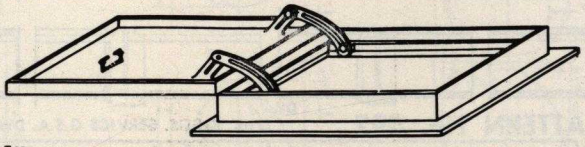
TYPE K-2 LOCK



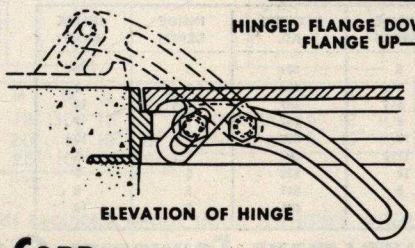
TYPE B-2 LOCK



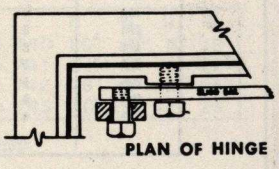
TYPE H-2 HINGE



HINGED FLANGE DOWN AS SHOWN—OR FLANGE UP—SEE PAGE 3



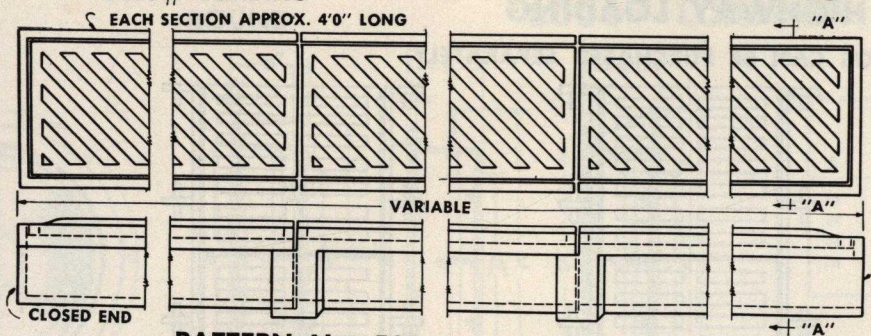
ELEVATION OF HINGE

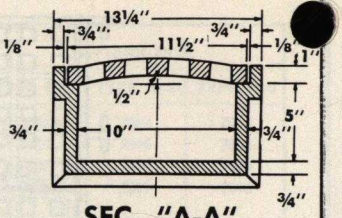


PLAN OF HINGE

GUTTERS
INTERCEPTING

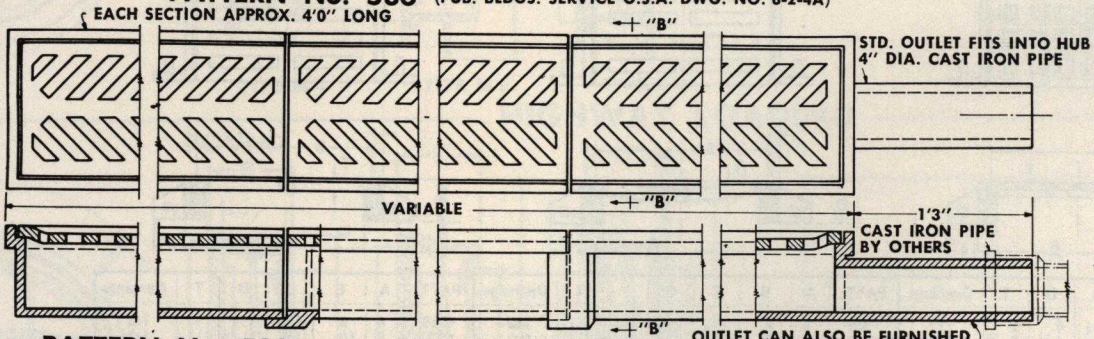
8000# LOADING

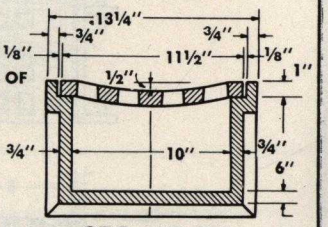




SEC. "A-A"

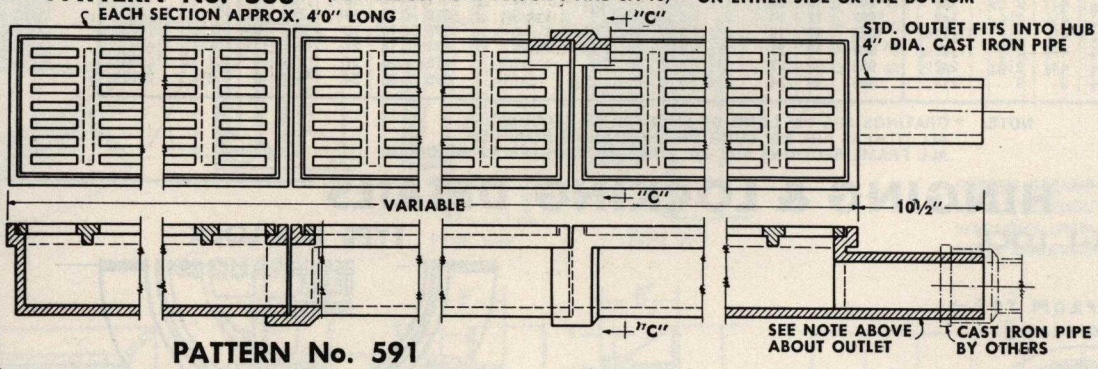
PATTERN No. 586 (PUB. BLDGS. SERVICE G.S.A. DWG. NO. 6-2-4A)

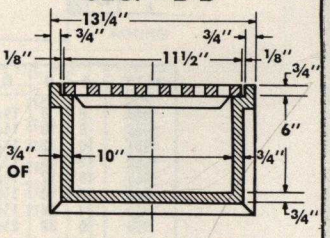




SEC. "B-B"

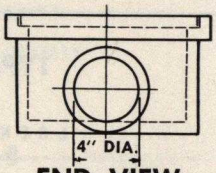
PATTERN No. 588 (PUB. BLDGS. ADM. DET. SA-9 AND SA-10)



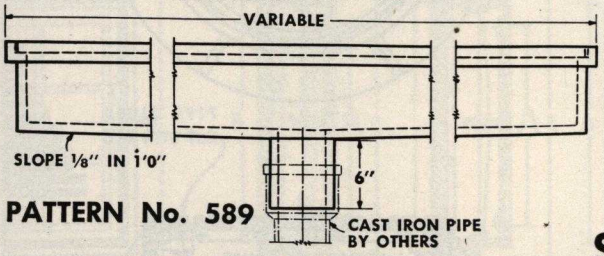


SEC. "C-C"

PATTERN No. 591

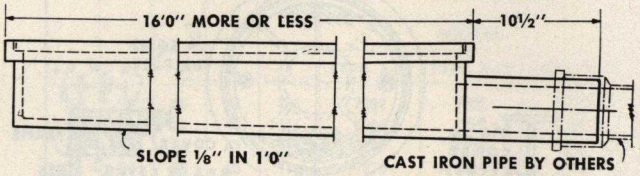


END VIEW



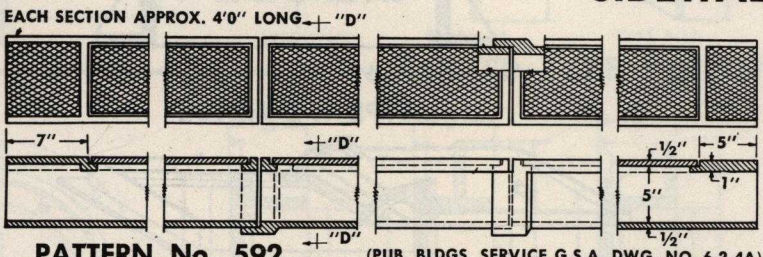
PATTERN No. 589

NOTE PATTERN NOS. 589 AND 590 HAVE SAME COVERS AS PATTERN NO. 591

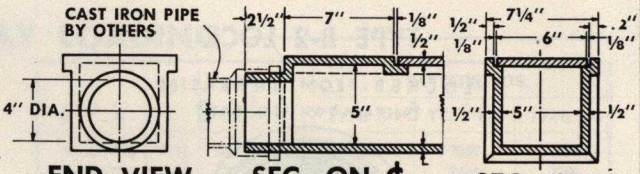


PATTERN No. 590

SIDEWALK

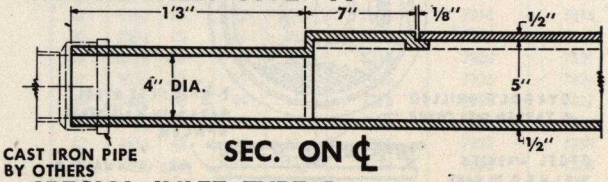


PATTERN No. 592 (PUB. BLDGS. SERVICE G.S.A. DWG. NO. 6-2-4A)



END VIEW SEC. ON ℄ SEC. "D-D"

SPECIAL INLET TYPE "A"



SEC. ON ℄

SPECIAL INLET TYPE B (PUB. BLDGS. ADM. DET. SA-10)

INLETS OF ANY PIPE SIZE AND LENGTH AVAILABLE ON ANY PATTERN

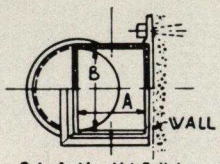
PATTERN NO.	INSIDE DEPTH	INSIDE WIDTH	PATTERN NO.	INSIDE DEPTH	INSIDE WIDTH
593	4	6	601	6	6
594	4	8	606	6	8
595	5	5½	587	6½	16
596	5	8	607	7	7
597	5	10	608	7	10
598	5	11½	609	7¾	5
599	5	12	610	8	6
600	6	5	611	8	8
			616	6	10

COVERS CAN BE PERFORATED

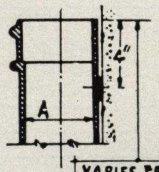
CONTRACTORS FOUNDRIES CORP.

SUBURBAN STATION BUILDING, PHILADELPHIA 3, PA.

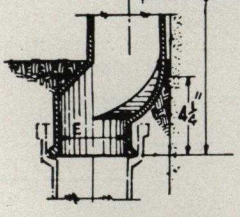
DOWNSPOUT SHOES



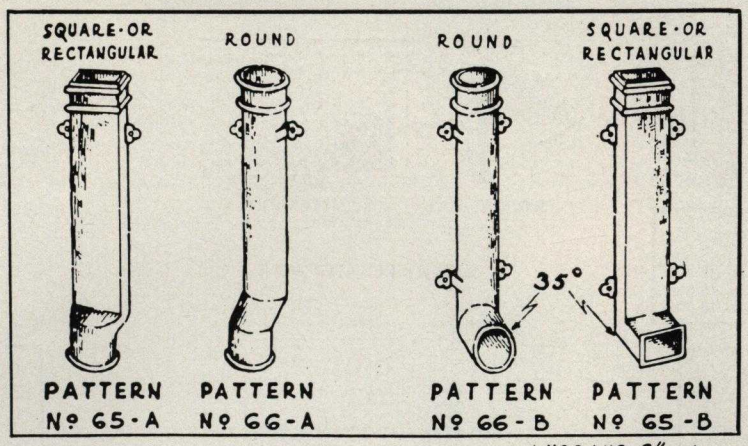
PLAN VIEW & SECTION.

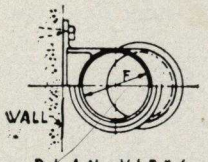


VARIES FROM 12" TO 72" ADVANCING EVERY 6".

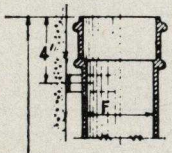


SEC. ELEVATION
PATTERN Nº 65-A

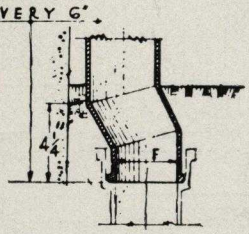




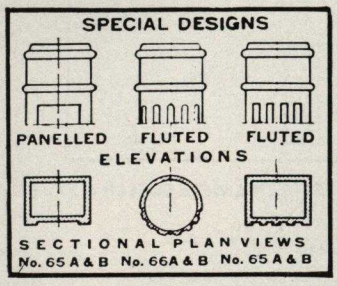
PLAN VIEW & SECTION

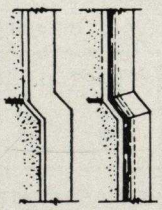


VARIES FROM 12" TO 72" ADVANCING EVERY 6".



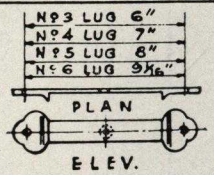
SEC. ELEVATION
PATTERN Nº 66A





·OFFSET·

ANY PATTERN CAN BE OFFSET·



DETAIL·OF·LUG

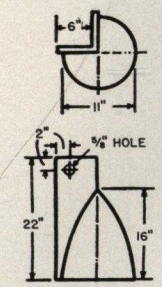
LUGS FURNISHED ON "A" DESIGNS 24" LONG & UP. (12" & 18" ONLY WHEN SPECIFIED.) "B" DESIGNS ONE LUG ON 12" & 18", 2 ON 24" & UP. LUGS ATTACHED WITH ¼" F. H. SCREW.

NO. 65-A SHOES (SQUARE & RECTANGULAR)							
A x B = Spout Size	2"x2"	2"x3"	3"x3"	3"x4"	4"x4"	4"x5"	4"x6"
E = Outlet Dia.	3"	3"	4"	4"	4"	4"	5"
Lug Used	No. 3	No. 3	No. 4	No. 4	No. 5	No. 5	No. 6
Approx. Weight Lbs. Per Foot	12	12	15	15	18	18	22

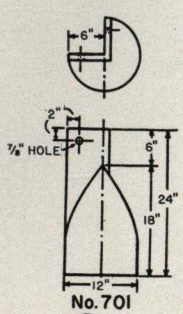
NO. 66-A SHOES (ROUND)			
F = Spout Size	3" Dia.	4" Dia.	5" Dia.
F = Outlet Dia.	3"	4"	5"
Lug Used	No. 3	No. 4	No. 5
Approx. Weight Lbs. Per Foot	11	14	16

STANDARD OVERALL LENGTH ALL SHOES 12" 18" 24" 30" 36" 42" 48" 54" 60" 72"

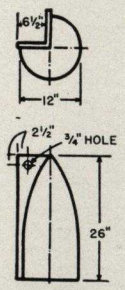
WHEELGUARDS



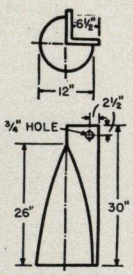
No. 700



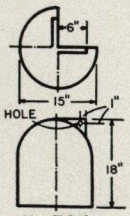
No. 701



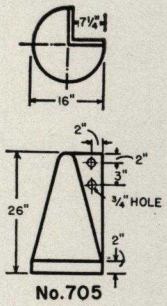
No. 702



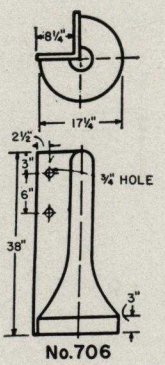
No. 703



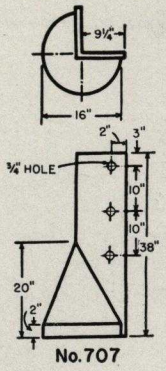
No. 704



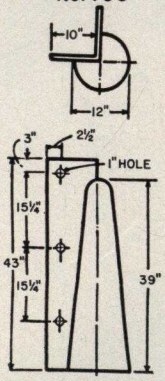
No. 705



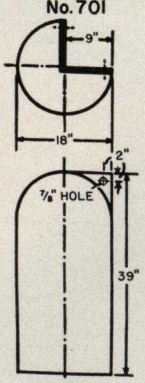
No. 706



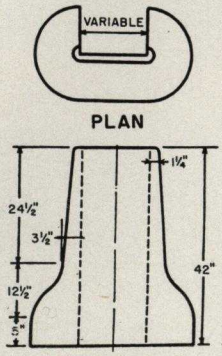
No. 707



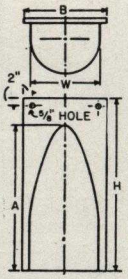
No. 708



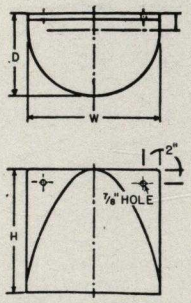
No. 709



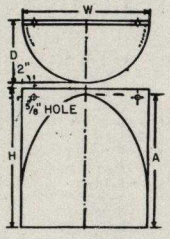
No. 720



	H	W	A	B
No. 731	18"	10"	15"	12"
No. 732	20"	8"	19"	10"
No. 733	25"	10"	21"	12"



	H	W	D
No. 735	15"	12"	10"
No. 736	15"	16"	10"



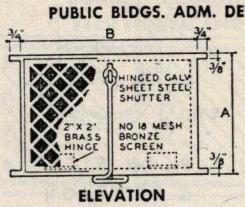
	H	W	D	A
No. 740	20"	16"	8"	18"
No. 741	24"	16"	13"	22"
No. 742	28"	19"	12"	25"
No. 743	30"	24"	12"	26"

HEIGHT AND WIDTH OF BACKPLATES CHANGED WHEN REQUIRED. GROUT HOLES FURNISHED WHEN SPECIFIED.

VENT GRILLES

HEAVY PATTERN • EXTERIOR OPERATION

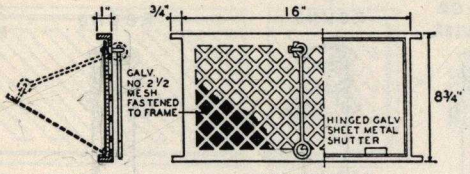
PUBLIC BLDGS. ADM. DETAIL



ELEVATION SECTION

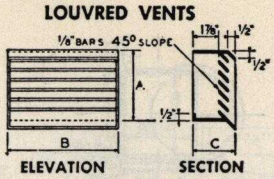
PATTERN NO.	SIZE A	SIZE B	REMARKS
663	8 3/8"	12 3/8"	Sa. Det. No. 18
664	10 3/8"	12 3/8"	Sa. Det. No. 18 Mod.
665	12 3/8"	16 3/8"	Sa. Det. No. 18 Mod.

VENT WITH SHUTTER • EXTERIOR OPERATION



SECTION ELEVATION

LOUVRED VENTS

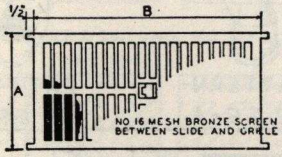


ELEVATION SECTION

NOTE—CAN BE FURNISHED WITH GALVANIZED SHEET METAL OR COPPER DUCT FOR ANY WALL THICKNESS. BRONZE SCREEN ATTACHED ALSO IF REQUIRED.

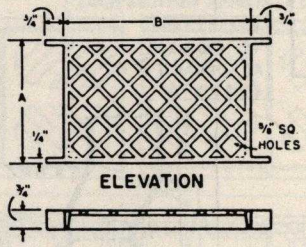
PATTERN NO.	SIZE A	SIZE B	SIZE C
671	2 1/2"	8"	3"
672	5"	8"	3"

SLIDING REGISTER VENT

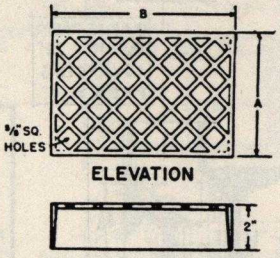


ELEVATION

PATTERN NO.	SIZE A	SIZE B
667	8"	12"
668	8"	16"



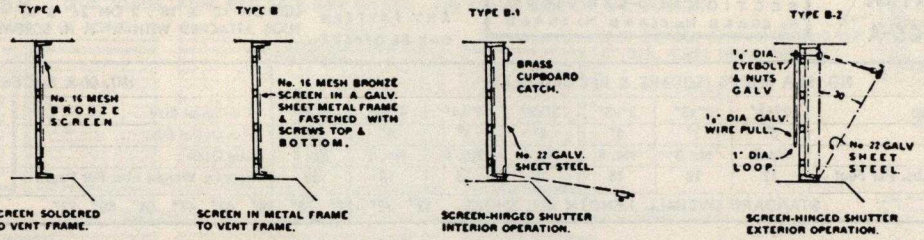
ELEVATION



ELEVATION

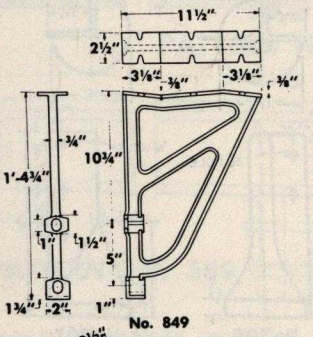
PATTERN NO.	SIZE A	SIZE B
650	5	12
651	6	8
652	6	12
653	7	14
654	8	8
655	8	10
656	8	12
657	8	16
658	10	12
659	12	12
660	12	14
661	12	18
662	12	24
666	18	24

TYPICAL SECTIONS THROUGH VENT GRILLS WITH SCREEN & WITH SCREEN & SHUTTER

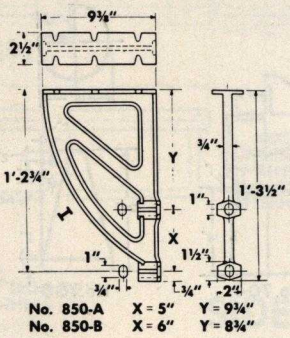


PATTERN NO.	SIZE A	SIZE B
675	2 1/2	8
676	5	8
677	5	17
678	5	12
679	6	12
680	8	10
681	8	12
682	10	12
683	12	12
684	12	18
685	12	24
688	8	16

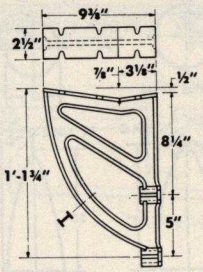
SEAT BRACKETS—BENCH LEGS



No. 849



No. 850-A X = 5" Y = 9 3/4"
No. 850-B X = 6" Y = 8 3/4"



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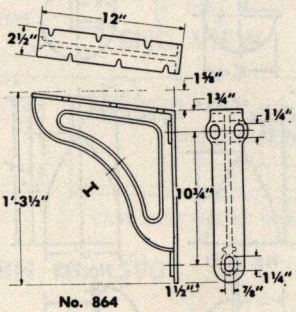
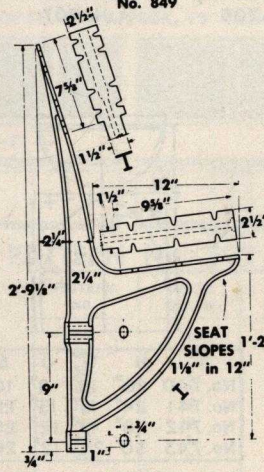
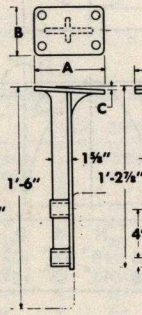


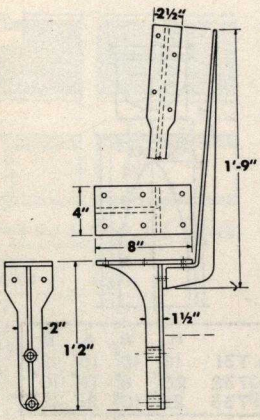
No. 864



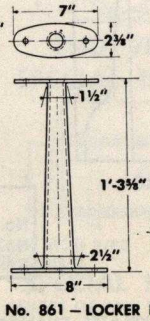
No. 854

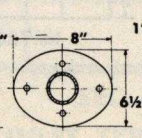


No. 858 A = 6 B = 4 C = 3/16"
No. 863 A = 8 B = 4 C = 1/4"

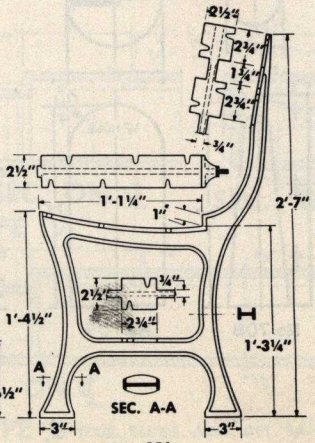


No. 862 — 2 PC. UNIT





No. 861 — LOCKER ROOM STD.



No. 856

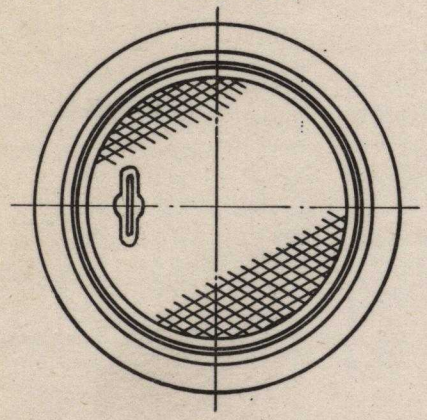
CONTRACTORS FOUNDRIES CORP.

SUBURBAN STATION BUILDING, PHILADELPHIA 3, PA.

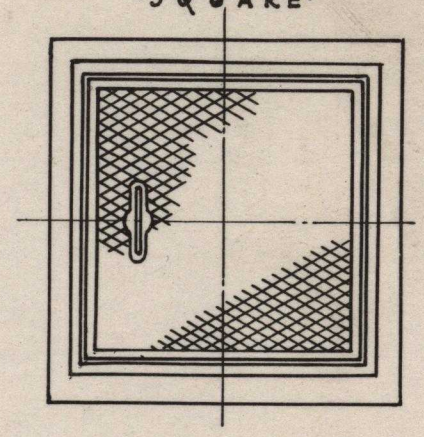
·CAST IRON · LIGHTWEIGHT · FRAMES · & · COVERS·

·COVERS EITHER SOLID OR GRATING TYPE FOR LIGHT TRAFFIC CONDITIONS·

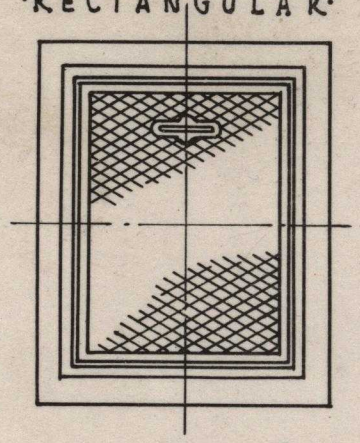
·ROUND·



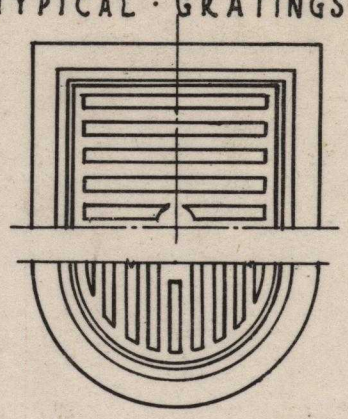
·SQUARE·

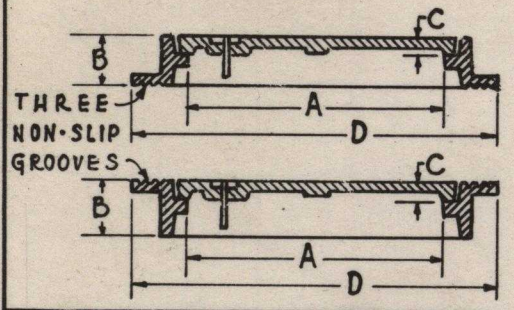


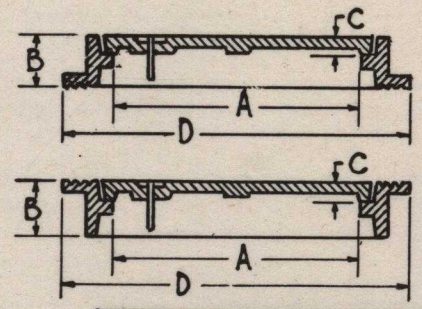
·RECTANGULAR·

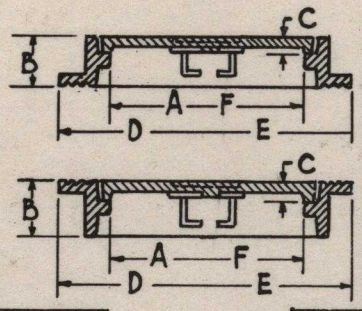


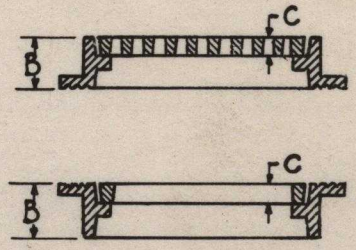
·TYPICAL · GRATINGS·











ROUND

PATTERN Nº	COVER SIZE	A	B	C	D	WEIGHT
5	8	7	2½	¾	10½	22
10	10	9	2½	¾	12¾	28
11	12	10⅝	2½	¾	15	35
12	14	13	2¾	⅞	17½	38
14	16	15	2¾	⅞	19½	50
15	18	17	3	1	21¾	70
16	20	19	3	1	23⅞	80
20	22	21	3	1	25½	96
17	24	23	3	1	28½	115
18	30	29	3¼	1	34¾	195
19	36	35	3¼	1	41	290

SQUARE

PATTERN Nº	COVER SIZE	A	B	C	D	WEIGHT
21	8	7¼	2½	¾	11	22
22	12	11	2½	¾	15¼	37
23	14	13	2¾	⅞	17½	55
24	16	15	3	1	19½	66
25	18	17	3	1	21¾	79
26	20	19	3	1	24¼	96
27	24	23	3	1	28½	150
28	30	28¾	3¼	1	35	215
▲29	36	34¾	3¼	1	41	310
200	28	27	3	1	33	190

▲PATTERNS HAVE TWO SECTION COVERS.

RECTANGULAR

PATTERN Nº	COVER SIZE	A	B	C	D	E	F	WEIGHT
31	12×16	11	2½	⅞	15½	19½	15	50
38	14×24	13	3	1	17½	27½	23	95
32	18×24	17	3	1	21¾	27¾	23	108
33	18×30	17	3	1	21¾	33¾	29	158
34	18×36	17	3	1	21¾	39¾	35	175
35	24×30	22¾	3	1	28	34	28¾	157
36	24×36	22¾	3	1	28½	40½	34¾	200
▲37	24×48	22¾	3¼	1	29	53	46¾	265
56	27×30	26	4	1	32	35	29	220
▲39	30×36	28¾	3¼	1	35	41	34¾	310
57	30×42	28¾	3¼	1	35	47	40¾	350
▲40	36×60	34¾	3¼	1	41	65	58¾	520
▲68	42×60	40¾	3¼	1	47	65	58¾	550

ALL COVERS ARE ¼" LESS THAN DIMENSIONS SHOWN TO ALLOW FOR CLEARANCE.

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 100

Revised 1/23/42

CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No 100

ALL COVERS ARE ⅛" LESS THAN DIMENSIONS SHOWN TO ALLOW FOR CLEARANCE.

ROUND

PATTERN No	COVER SIZE	A	B	C	D	WEIGHT
8	8	7	5½	½	10½	55
10	10	9	5½	½	12½	58
11	12	10½	5½	½	15	65
13	14	12	5½	½	17½	68
14	16	13	5½	½	19½	70
15	18	15	6	1	21½	70
16	20	16	6	1	23½	80
20	22	21	6	1	27½	96
23	24	23	6	1	29½	112
18	26	25	6½	1	31½	152
19	28	27	6½	1	41	250

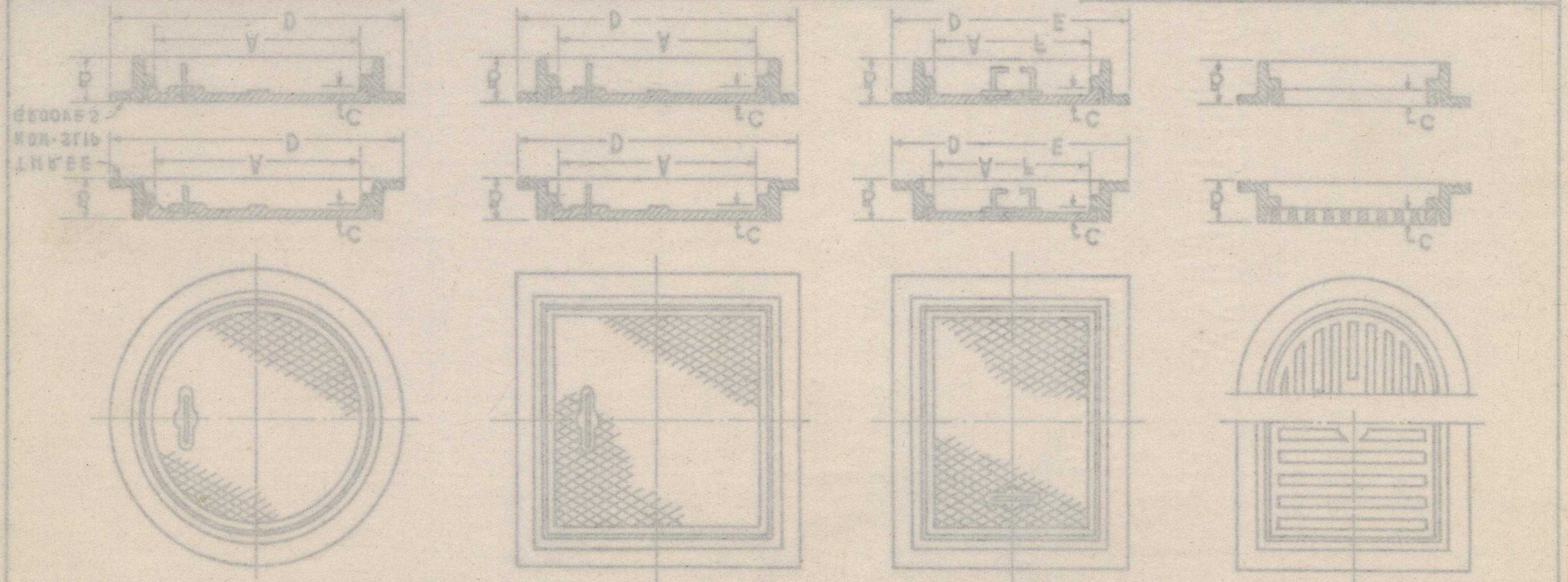
SQUARE

PATTERN No	COVER SIZE	A	B	C	D	WEIGHT
21	8	7½	5½	½	11	55
22	12	11	5½	½	15½	75
24	14	13	5½	½	17½	85
25	16	15	6	1	19½	95
26	18	17	6	1	21½	95
27	20	19	6	1	23½	98
28	24	23	6	1	29½	150
29	26	24½	6½	1	31½	210
30	28	27	6	1	33	190
200	28	27	6	1	33	190

▲PATTERNS HAVE TWO SECTION COVERS.

RECTANGULAR

PATTERN No	COVER SIZE	A	B	C	D	E	F	WEIGHT
31	12×18	11	7½	½	13½	19½	15	50
32	14×24	13	6	1	17½	23½	23	96
33	18×24	17	6	1	21½	27½	25	108
34	18×30	17	6	1	21½	33½	29	125
35	18×36	17	6	1	21½	39½	32	137
36	24×30	23	6	1	27½	33½	32	150
37	24×36	23	6	1	27½	39½	34½	200
38	24×48	23½	6½	1	27½	51½	42½	252
▲39	30×36	28½	6½	1	33	39½	34½	310
40	30×60	28½	6½	1	33	63½	52	350
41	36×48	33½	6½	1	39	51½	42½	420
▲42	42×60	40½	6½	1	45	63½	52	520
▲43	48×60	46½	6½	1	51	63½	52	580



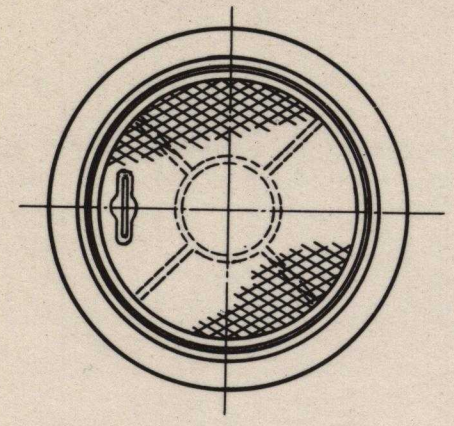
·CAST IRON · LIGHTWEIGHT · FRAMES & COVERS·

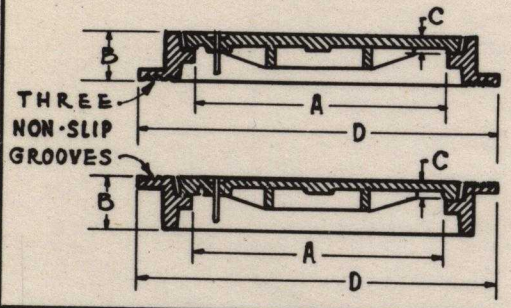
·COVERS EITHER SOLID OR GRATING TYPE FOR LIGHT TRAFFIC CONDITIONS·

·CAST IRON · FRAMES · WITH REINFORCED · SOLID COVERS·

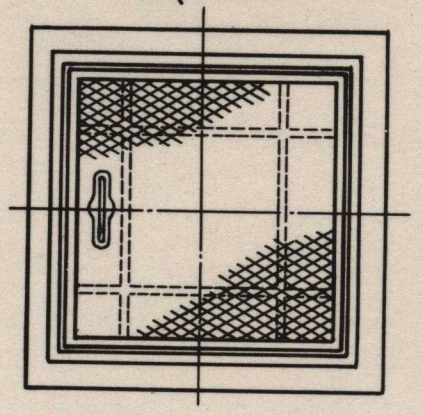
·FOR MEDIUM WEIGHT TRAFFIC·

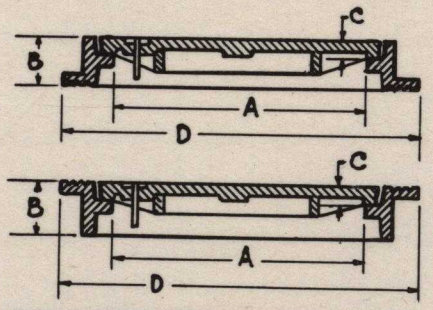
·ROUND·



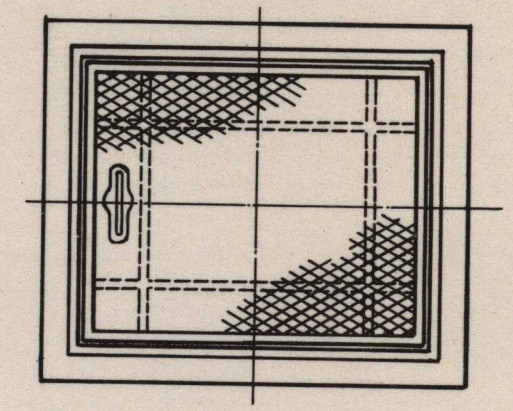


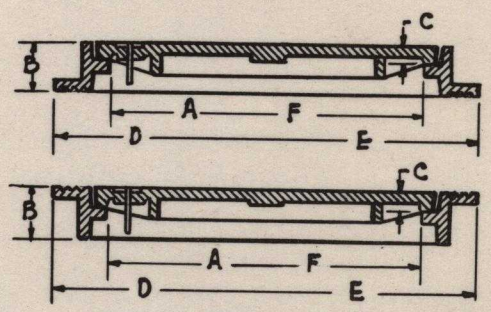
SQUARE





RECTANGULAR





ROUND

PATTERN Nº	COVER SIZE	A	B	C	D	WEIGHT
711	12	10⅝	2½	¾	15	40
712	14	13	2¾	⅞	17½	43
714	16	15	2¾	⅞	19½	55
715	18	17	3	1	21¾	75
716	20	19	3	1	23⅞	86
720	22	21	3	1	25¼	102
717	24	23	3	1	28½	127
718	30	29	3¼	1	34¾	210
719	36	35	3¼	1	41	315

SQUARE

PATTERN Nº	COVER SIZE	A	B	C	D	WEIGHT
722	12	11	2½	¾	15¼	42
723	14	13	2¾	⅞	17½	61
724	16	15	3	1	19½	72
725	18	17	3	1	21¾	90
726	20	19	3	1	24¼	120
727	24	23	3	1	28½	160
728	30	28¾	3¼	1	35	245
▲729	36	34¾	3¼	1	41	340
258	28	27	3	1	33	210

▲ PATTERNS HAVE TWO SECTION COVERS.

RECTANGULAR

PATTERN Nº	COVER SIZE	A	B	C	D	E	F	WEIGHT
731	12×16	11	2½	⅞	15½	19½	15	53
738	14×24	13	3	1	17½	27¼	23	100
732	18×24	17	3	1	21¾	27¾	23	118
733	18×30	17	3	1	21¾	33¾	29	163
734	18×36	17	3	1	21¾	39¾	35	190
735	24×30	22¾	3	1	28	34	28¾	175
736	24×36	22¾	3	1	28½	40½	34¾	220
▲737	24×48	22¾	3¼	1	29	53	46¾	300
756	27×30	26	4	1	32	35	29	245
739	30×36	28¾	3¼	1	35	41	34¾	325
757	30×42	28¾	3¼	1	35	47	40¾	375
▲740	36×60	34¾	3¼	1	41	65	58¾	560
▲768	42×60	40¾	3¼	1	47	65	58¾	590

ALL COVERS ARE ¼" LESS THAN DIMENSIONS SHOWN TO ALLOW FOR CLEARANCE.

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 101

Revised 5/1/42

CONTRACTORS FOUNDRY INC. PHILADA.

ALL COVERS ARE ⅛" LESS THAN DIMENSIONS SHOWN TO ALLOW FOR CLEARANCE.

▲PATTERNS HAVE TWO SECTION COVERS.

ROUND

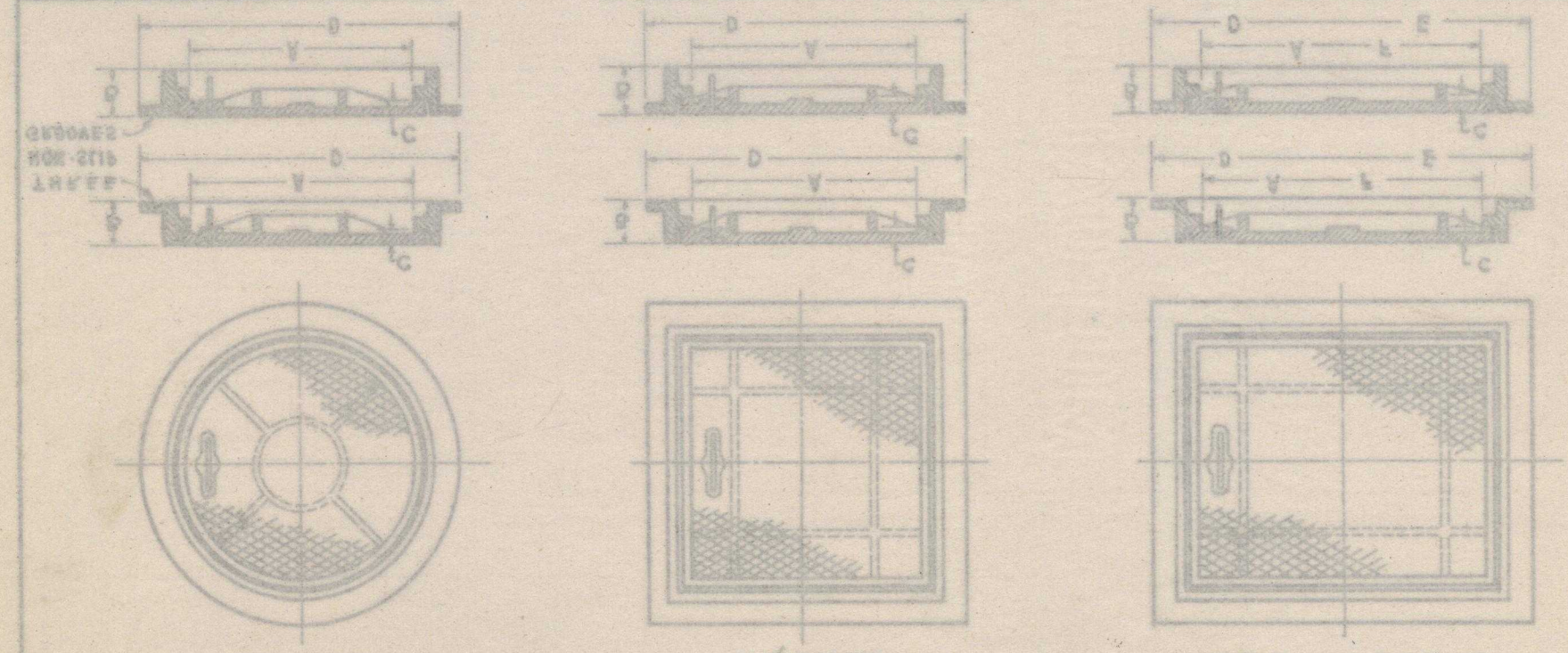
PATTERN No.	COVER SIZE	A	B	C	D	WEIGHT
711	15	10½	5½	⅝	15	40
712	14	15	2½	⅝	14½	55
713	18	15	2½	⅝	14½	65
714	16	15	2½	⅝	14½	55
715	18	17	3	1	16½	75
716	20	19	3	1	18½	95
717	24	21	3	1	20½	105
718	30	29	3	1	28½	151
719	36	35	3½	1	34½	210
720	42	41	3½	1	40½	275

SQUARE

PATTERN No.	COVER SIZE	A	B	C	D	WEIGHT
721	15	11	2½	⅝	12½	45
722	14	13	2½	⅝	11½	61
723	18	15	2½	⅝	13½	72
724	16	15	2½	⅝	13½	65
725	18	17	3	1	15½	90
726	20	19	3	1	17½	150
727	24	23	3	1	19½	160
728	30	28½	3½	1	25	245
729	36	34½	3½	1	31	340
730	42	40½	3½	1	37	450

RECTANGULAR

PATTERN No.	COVER SIZE	A	B	C	D	E	F	WEIGHT
731	18×24	11	2½	⅝	12½	18½	15	65
732	18×30	17	3	1	15½	22½	19	100
733	18×36	17	3	1	15½	22½	19	119
734	18×42	17	3	1	15½	22½	19	161
735	24×30	22½	3	1	20½	28½	24½	220
736	24×36	22½	3	1	20½	28½	24½	300
737	24×48	22½	3½	1	20½	28½	24½	450
738	30×36	28½	3½	1	26½	34½	30½	575
739	30×42	28½	3½	1	26½	34½	30½	690
740	36×48	34½	3½	1	32½	40½	36½	860

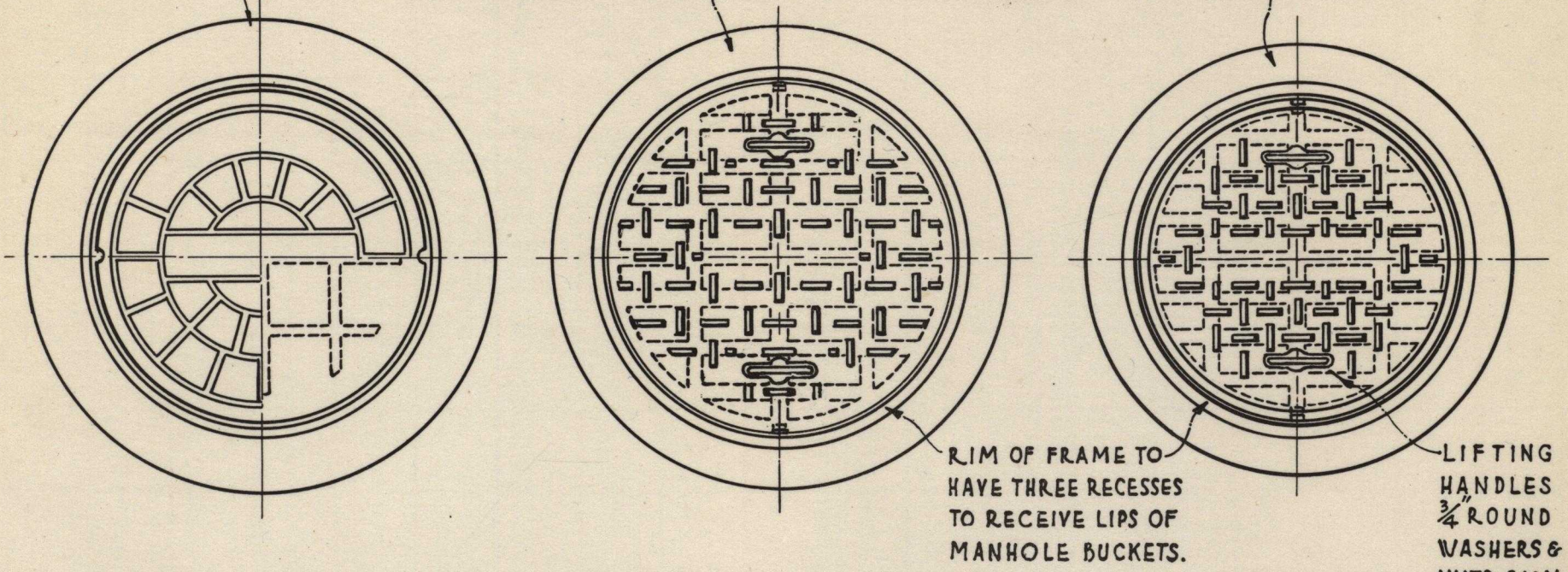


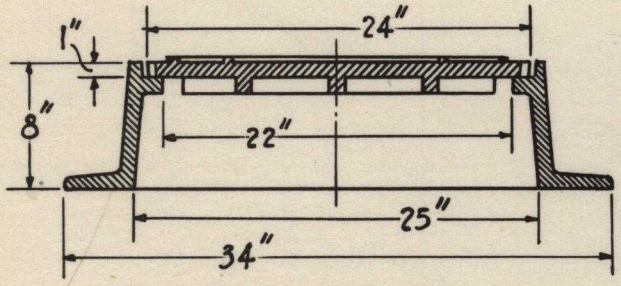
CAST IRON FRAMES WITH REINFORCED SOLID COVERS

FOR MEDIUM WEIGHT TRAFFIC

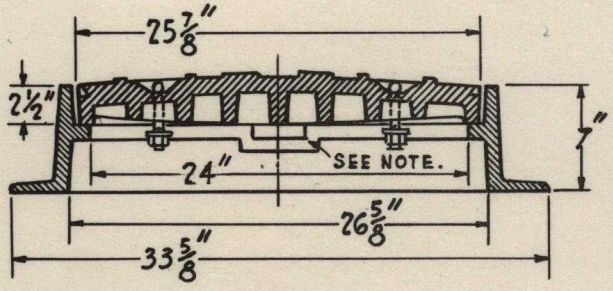
CAST IRON · HEAVY · HIGHWAY · MANHOLE FRAMES & COVERS ·

RAISED LETTERS AS SPECIFIED FOR COVERS ·

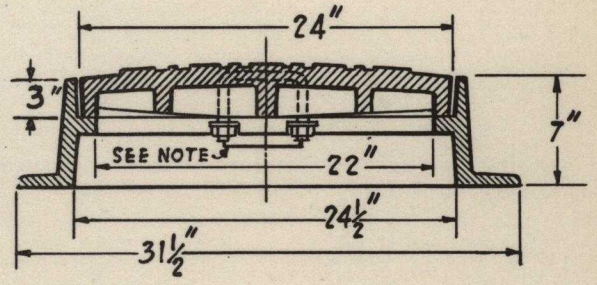




PATTERN Nº 52
WEIGHT 420 · LBS.



PATTERN Nº 69
WEIGHT 440 · LBS.



PATTERN Nº 51
WEIGHT 400 · LBS.

NOTE · ANY OF THE ABOVE COVERS CAN BE VENTED WITH 1" DIA. HOLES IF REQUIRED.

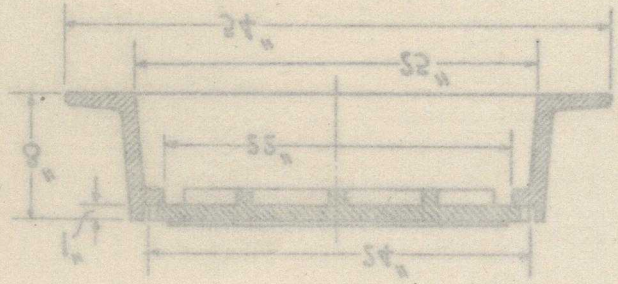
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 102

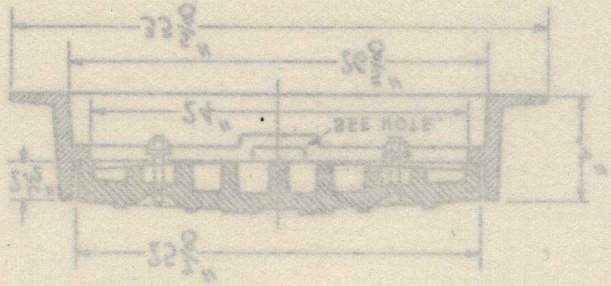
REVISED 3/21/41

NOTE - ANY OF THE ABOVE COVERS CAN BE VENTED WITH 1" DIA. HOLES IF REQUIRED.

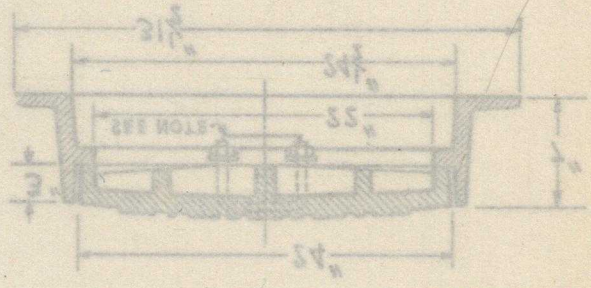
PATTERN No 25
WEIGHT 250 LBS.

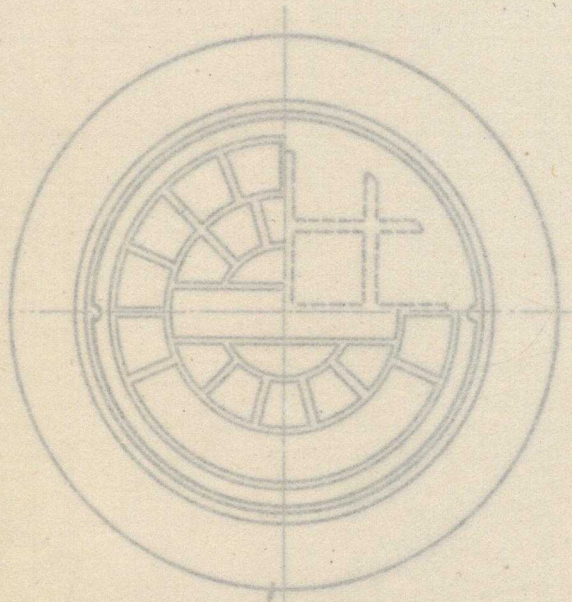


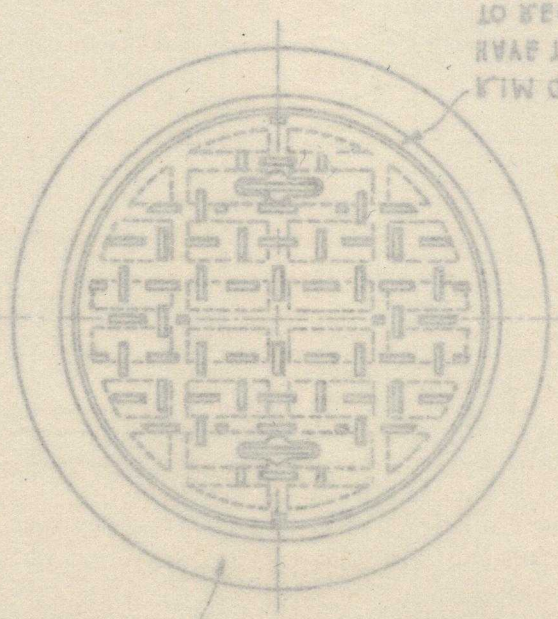
PATTERN No 69
WEIGHT 440 LBS.



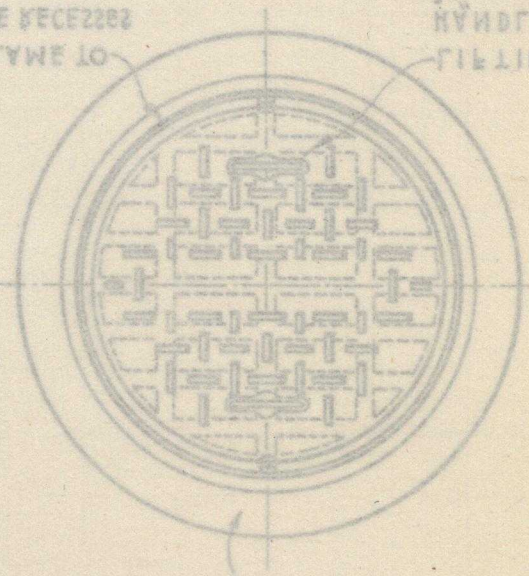
PATTERN No 51
WEIGHT 400 LBS.







MANHOLE PACKETS
TO RECEIVE LIPS OF
RIM OF FRAME TO
HAVE THREE RECESSES

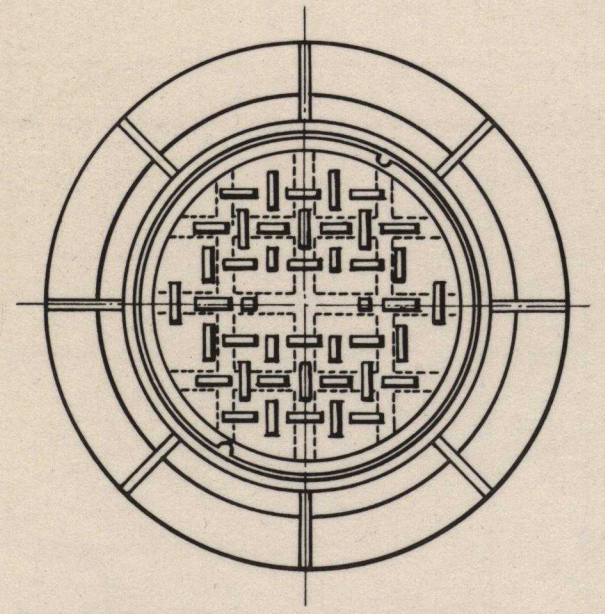


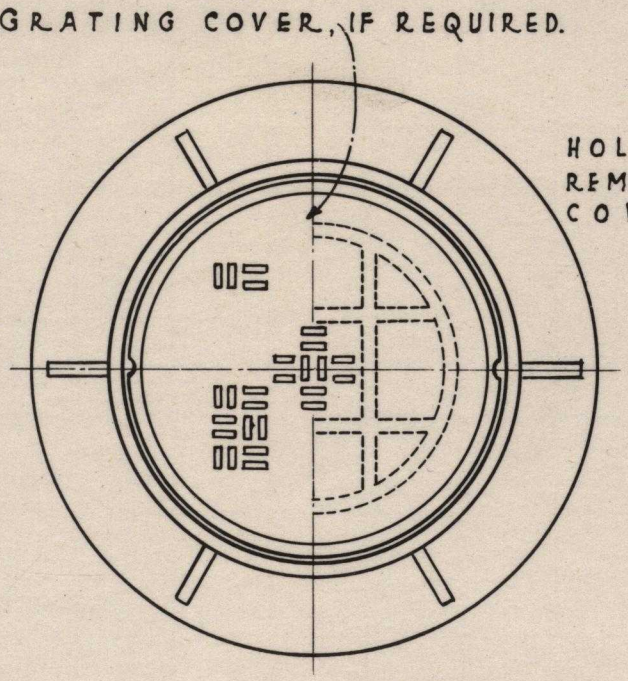
LIFTING
HANDLES
WASHERS &
NUTS REQ.

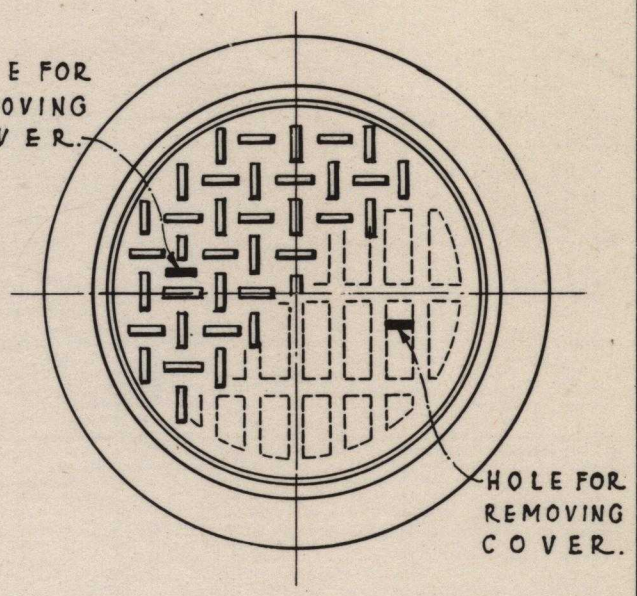
RAISED LETTERS AS SPECIFIED FOR COVERS

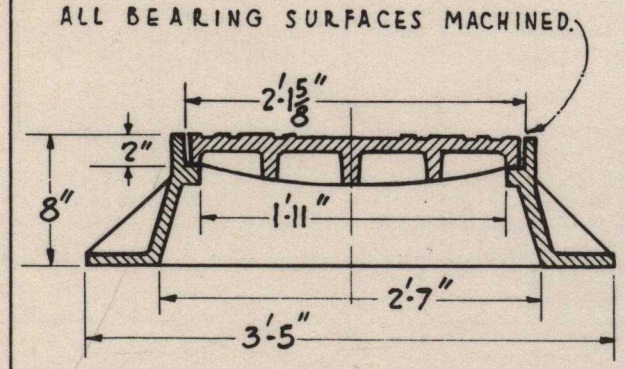
CAST IRON - HEAVY - HIGHWAY - MANHOLE FRAMES & COVERS.

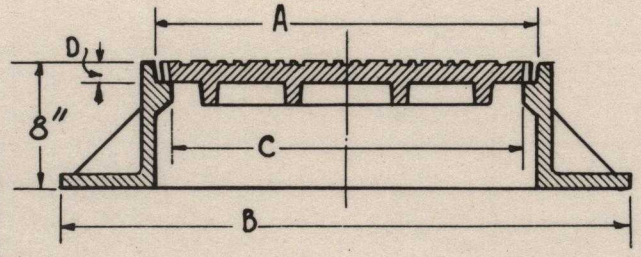
·CAST IRON · HEAVY HIGHWAY · MANHOLES·

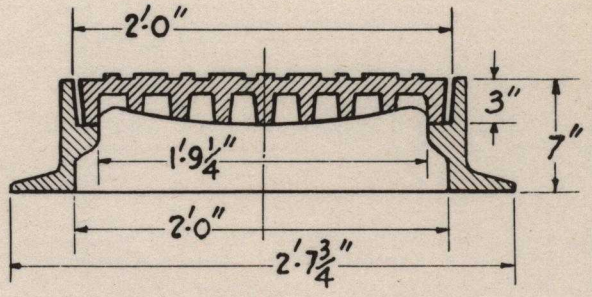












PATTERN Nº 54
WEIGHT 525·LBS.
[NEW JERSEY·STANDARD]

PATTERN Nº	A	B	C	D	WEIGHT
231	24	36	22	1¼	475
232	30	42	28	1½	700
233	36	48	34	1½	800
234	42	54	40	1¾	1000
235	48	60	46	1¾	1200

PATTERN Nº 55
WEIGHT 475·LBS.
[PENNSYLVANIA · STANDARD]

CONTRACTORS FOUNDRY INC., PHILA., PA.

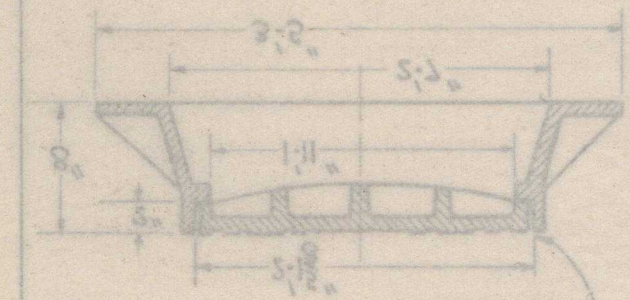
DATA SHEET Nº 103

CONTRACTORS FOUNDRY INC. PHILA. PA.

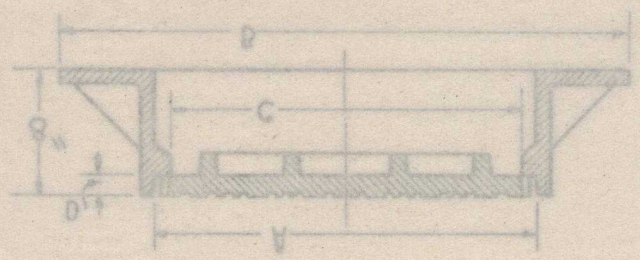
DATA SHEET No 105

PATTERN No	A	B	C	D	WEIGHT
521	24	32	22	1½	425
522	30	43	38	1½	700
523	36	48	34	1½	800
524	42	54	40	1½	1000
525	48	60	46	1½	1500

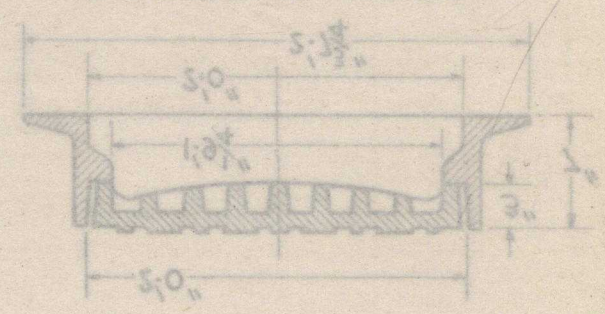
PATTERN No 24
WEIGHT 252·LBS
[NEW YORKER·STANDARD]

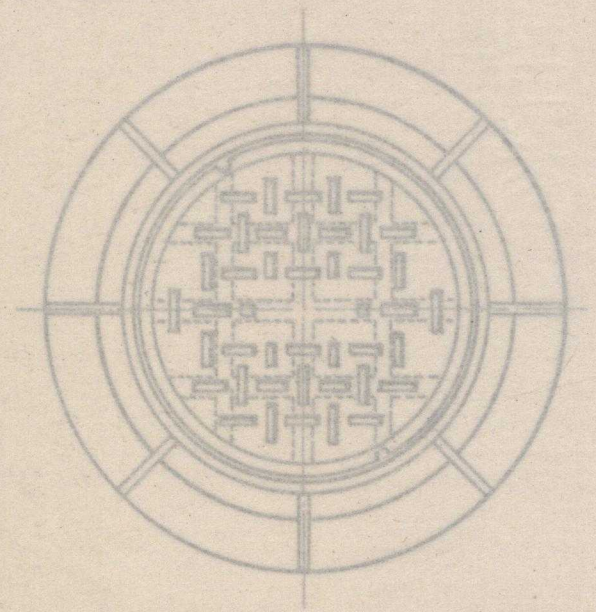


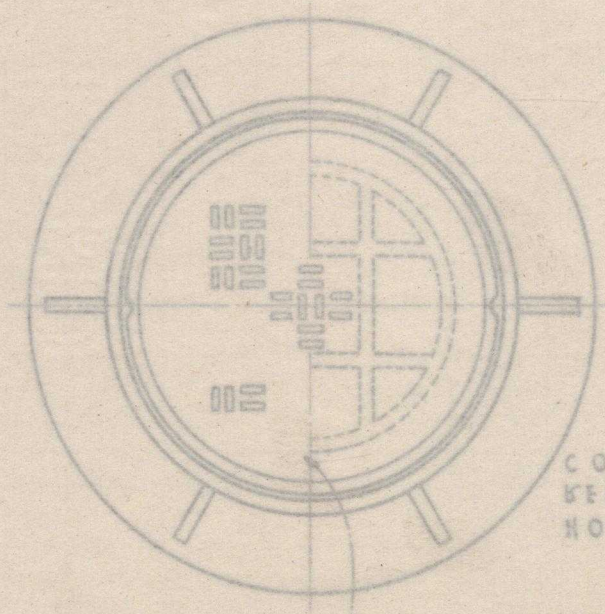
ALL BEARING SURFACES MACHINED

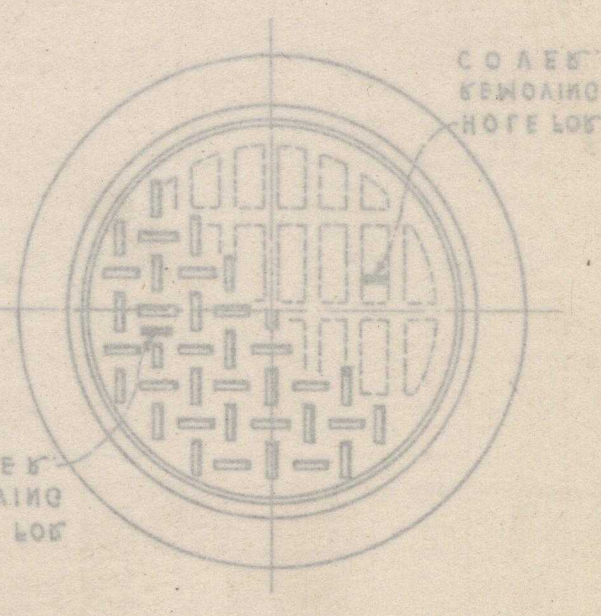


PATTERN No 22
WEIGHT 425·LBS
[PENNSYLVANIA·STANDARD]







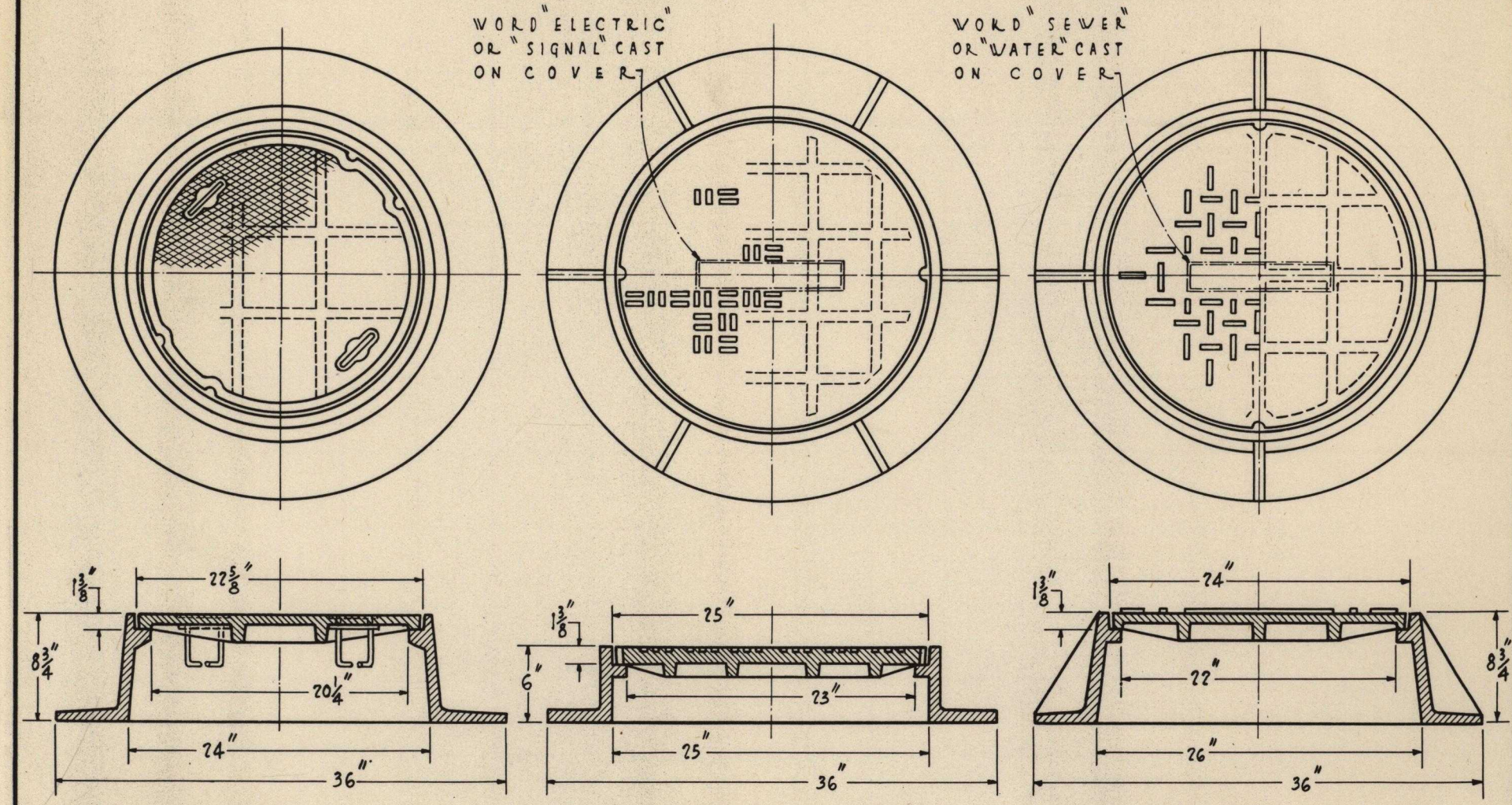


COVER REMOVING HOLE FOR

GRATING COVER IF REQUIRED

·CAST IRON·HEAVY HIGHWAY·MANHOLES·

CAST IRON · MANHOLE FRAMES & COVERS.



PATTERN Nº 110
WEIGHT 335·LBS.

[PUBLIC BUILDINGS ADM. DETAIL SA·16 FOR SUB·DRAINAGE CATCH BASIN]

PATTERN Nº 116
WEIGHT 325·LBS.

[U.S. VETERANS ADM. ELECTRIC M.H.]

PATTERN Nº 115
WEIGHT 350·LBS.

[U.S. VETERANS ADM. PLUMBING M.H.]

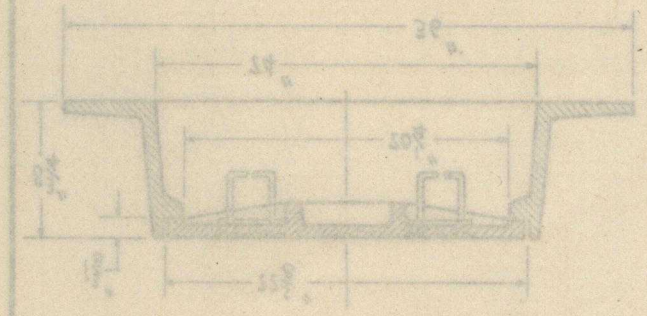
CONTRACTORS FOUNDRY, PHILA., PA.

DATA SHEET Nº 103

3-1-48

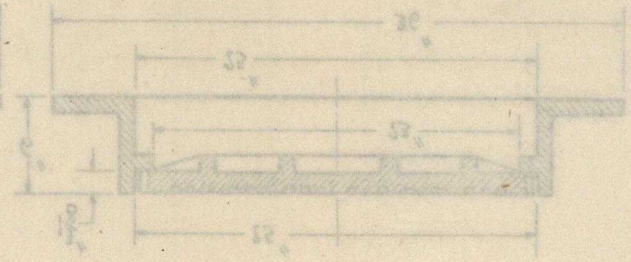
[FOR USE ON DRAINAGE CATCH BASIN
PUBLIC BUILDINGS ADM. DETAIL 2A-10]

WEIGHT 355-LBS
PATTERN No 110



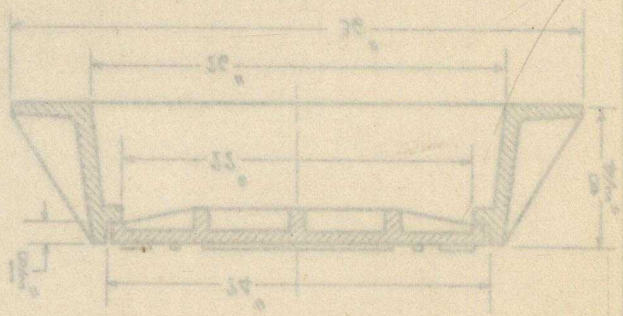
[ELECTRIC M.H.
U.S. VETERANS ADM.]

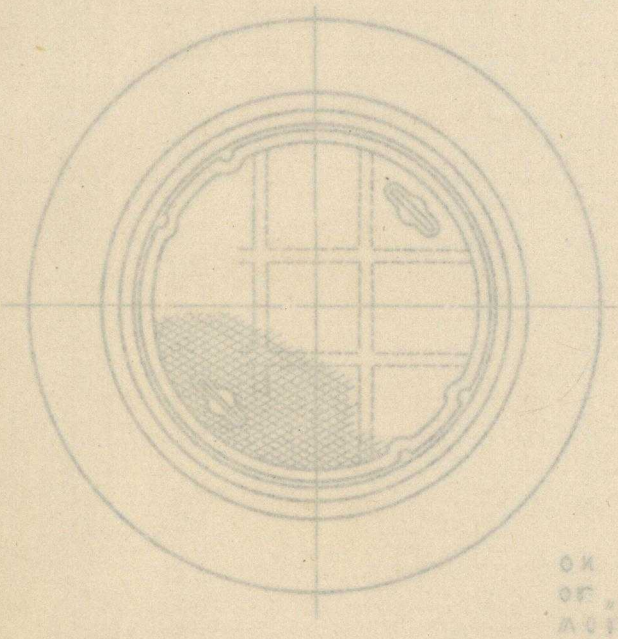
WEIGHT 355-LBS
PATTERN No 112

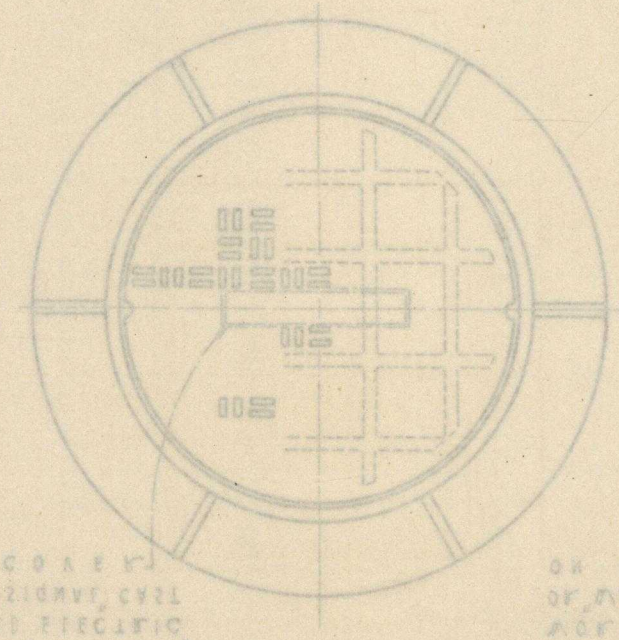


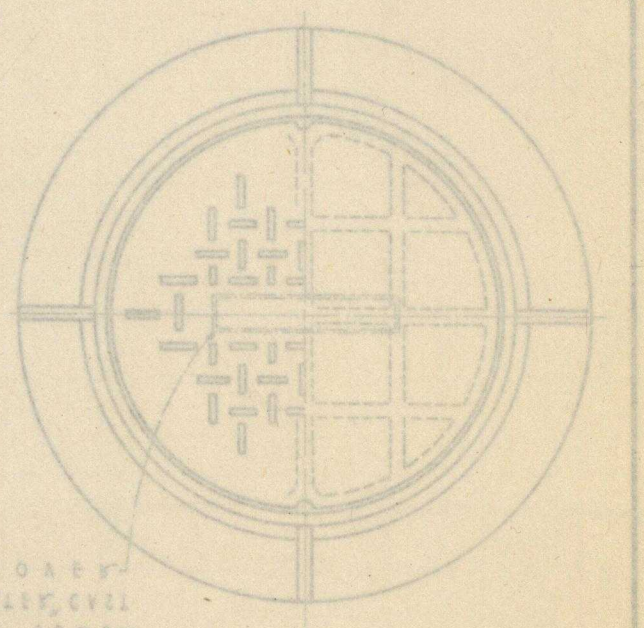
[DRAINING M.H.
U.S. VETERANS ADM.]

WEIGHT 350-LBS
PATTERN No 111









WORD "ELECTRIC"
ON "SIGNAL" CAST
ON COVER

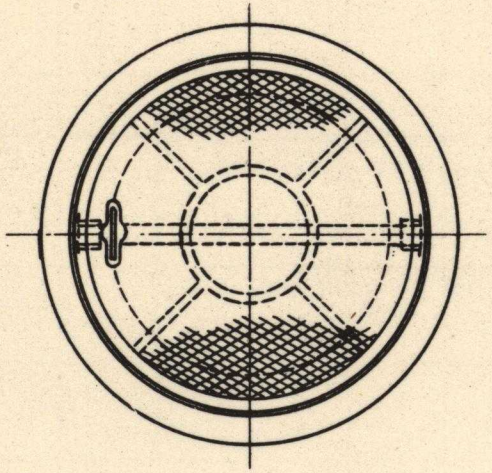
WORD "SEWER"
ON "WATER" CAST
ON COVER

CAST IRON · MANHOLE FRAMES & COVERS

·CAST IRON·WATERTIGHT & GASTIGHT·MANHOLES·

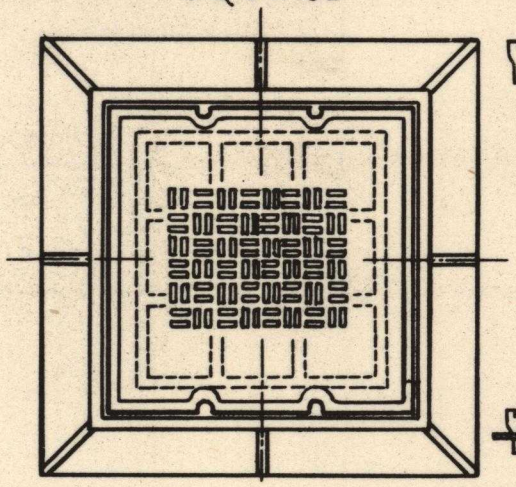
·FRAMES WITH OUTER & INNER COVERS·

ROUND

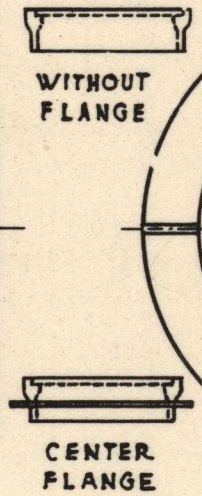


MEDIUMWEIGHT

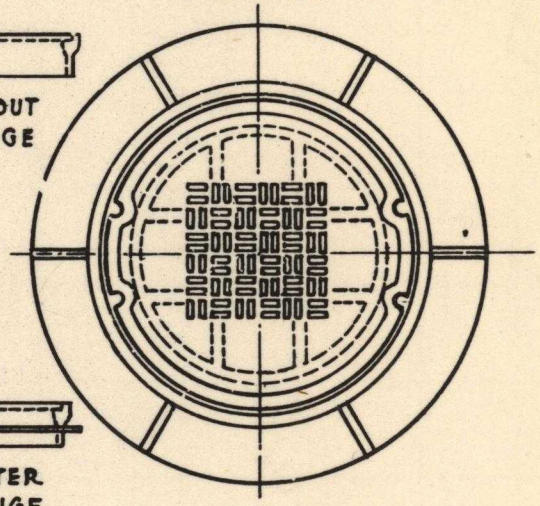
SQUARE



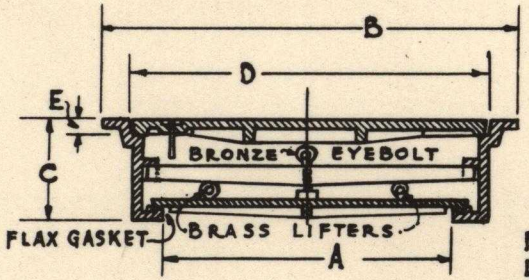
HEAVY

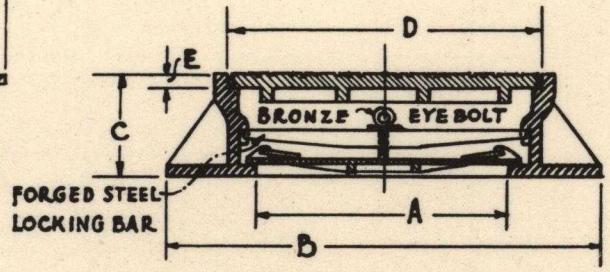


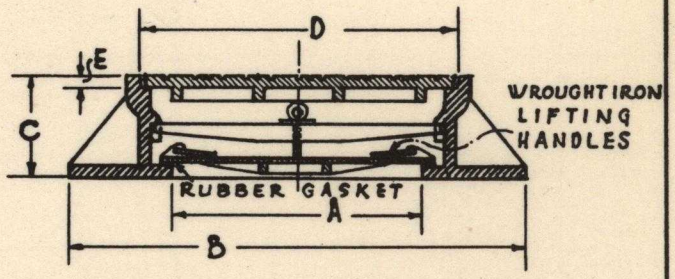
ROUND



HEAVY







ROUND						
PATTERN Nº	A	B	C	D	E	WEIGHT
72	18	28	8	24	1	255
73	24	34	8	30	1	400
74	30	40	8	36	1	560
90	36	46	8	42	1¼	815

SQUARE						
PATTERN Nº	A	B	C	D	E	WEIGHT
81	21	36	8	25½	1½	800
82	24	42	10	29	1½	1300
83	27	43	10	34¾	1½	1570
84	30	46½	10	37¾	1½	1600
85	33	49½	10	40¾	1½	2100
86	36	52½	10	43¾	1¾	2300

ROUND						
PATTERN Nº	A	B	C	D	E	WEIGHT
91	21	38	8	25¾	1⅜	750
92	24	41	8	32	1⅜	900
93	27	41	8	32	1⅜	975
94	30	48	11	38½	1½	1100
95	36	48	11	38½	1½	1300
96	38	51¾	12	44½	1⅝	1500

CONTRACTORS FOUNDRY INC., PHILA., PA.

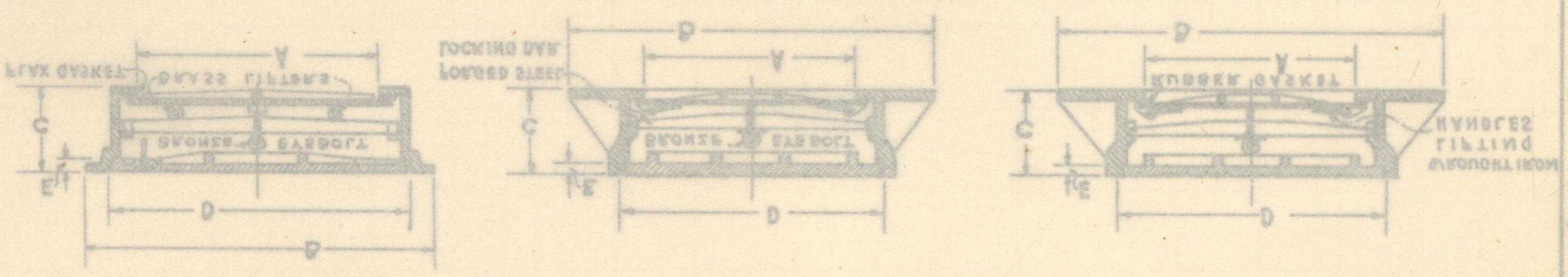
DATA SHEET Nº 104

REVISED 4/3/42

ROUND						
No PATTERN	A	B	C	D	E	WEIGHT
12	18	28	8	24	1	255
13	24	44	8	30	1	400
14	30	40	8	36	1	520
15	36	44	8	42	1½	815

SQUARE						
No PATTERN	A	B	C	D	E	WEIGHT
18	12	36	8	25½	1½	800
83	24	42	10	63	1½	1200
84	30	46½	10	75½	1½	1600
85	32	49	10	84½	1½	1970
86	36	52½	10	90½	1½	2400

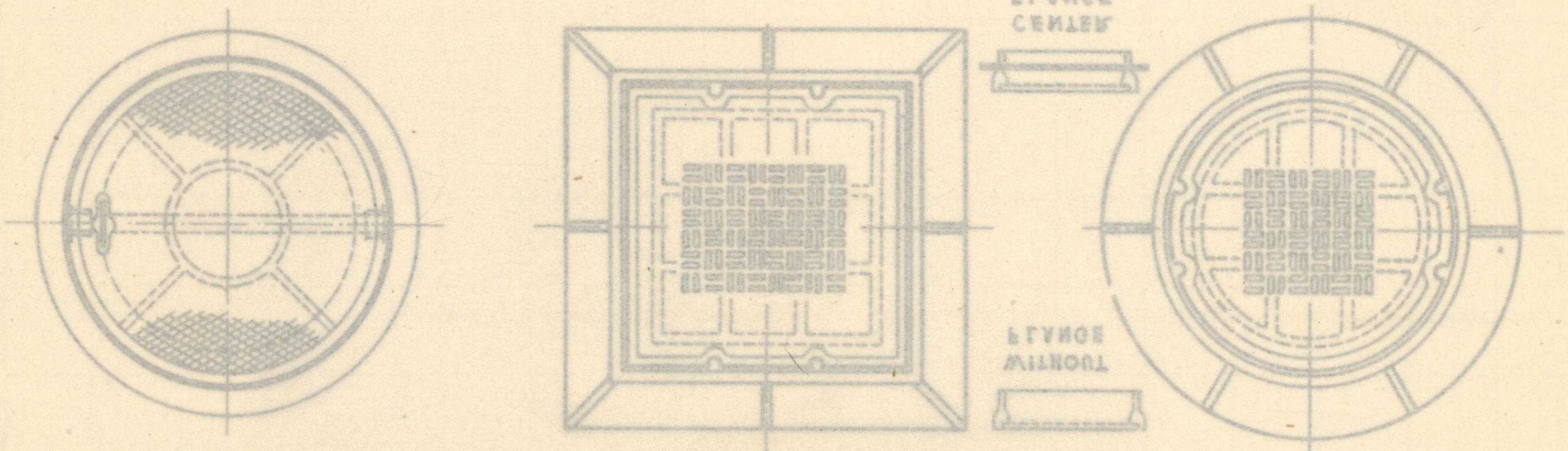
ROUND						
No PATTERN	A	B	C	D	E	WEIGHT
16	12	36	8	25½	1½	250
26	24	41	8	25	1½	600
63	32	41	8	36	1½	818
64	30	48	11	38½	1½	1100
65	36	48	11	36½	1½	1300
66	38	51½	12	44½	1½	1600



MEDIUM WEIGHT

HEAVY

HEAVY



ROUND

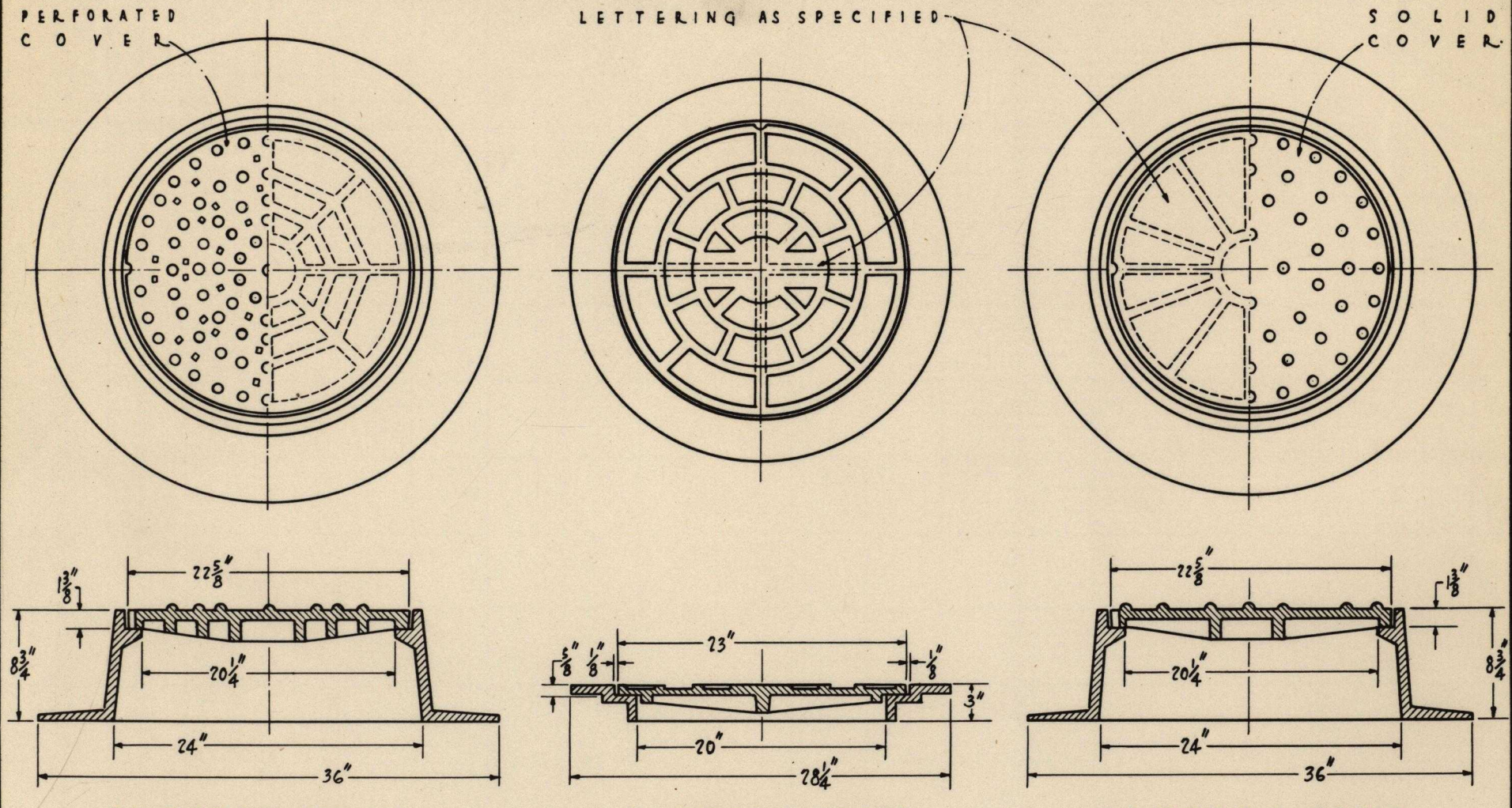
SQUARE

ROUND

·CAST IRON·WATERTIGHT & GASTIGHT·MANHOLES·

·FRAMES WITH OUTER & INNER COVERS·

CAST IRON · MANHOLE FRAMES & COVERS.



PATTERN Nº 111
WEIGHT 335·LBS.

[PUBLIC BUILDINGS ADM. RUNNING TRAP M.H. DETAIL ME 9·B & MH·78]

PATTERN Nº 448
WEIGHT 125·LBS.

[PUBLIC BUILDINGS ADM. OPEN SEWER OR DROP SEWER MANHOLE DETAIL MH. 78 & MH. 79]

PATTERN Nº 112
WEIGHT 335·LBS.

[PUBLIC BUILDINGS ADM. OPEN SEWER MH. DETAIL ME 9·C & MH. 78]

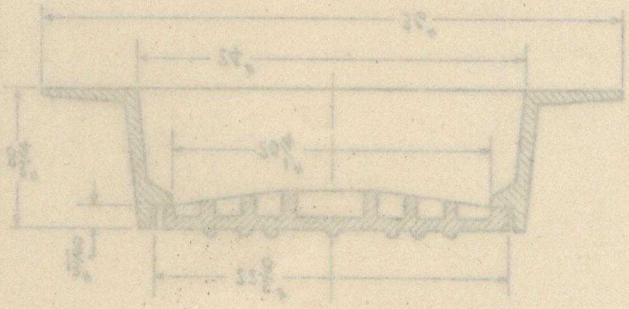
CONTRACTORS FOUNDRY, PHILA., PA.

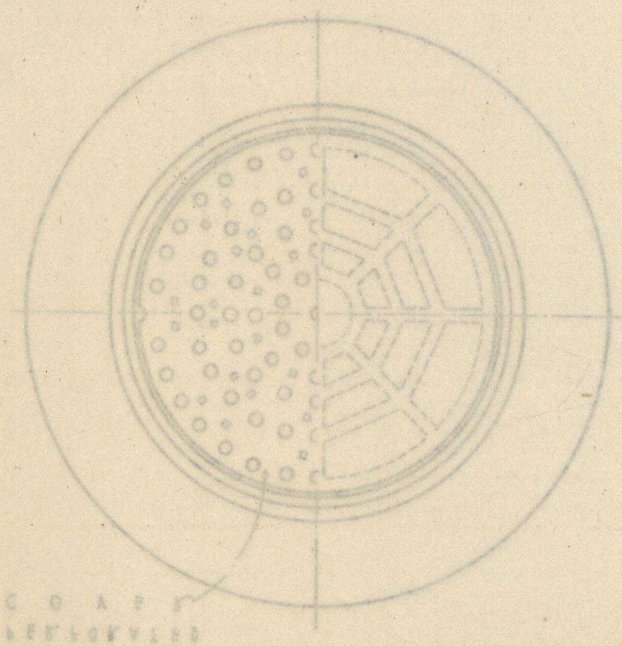
DATA SHEET Nº 104

3-1-48

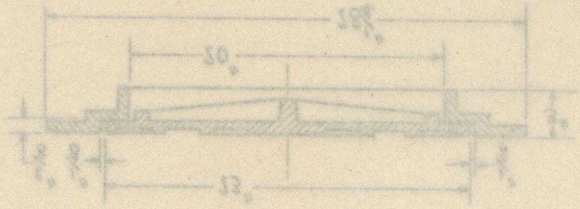
CAST IRON - MANHOLE FRAMES & COVERS

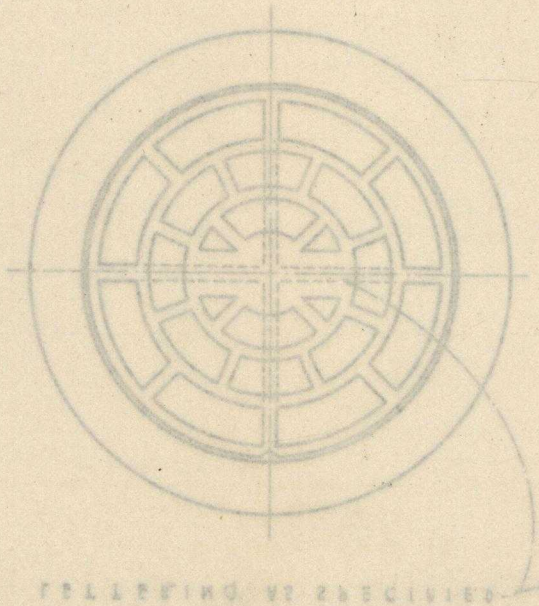
PATTERN No 111
WEIGHT 355 LBS.
[TRAFFIC BUILDINGS ADM. KANNING
TRAP MH. DETAIL No 5-B & MH-18]



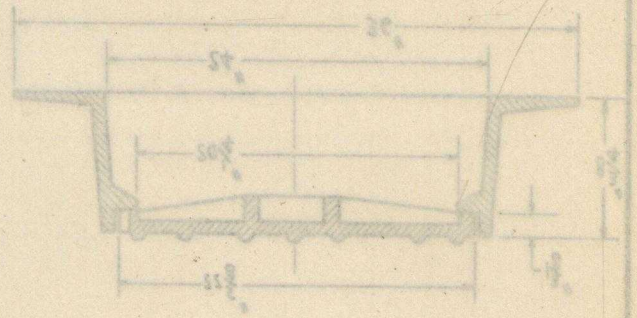


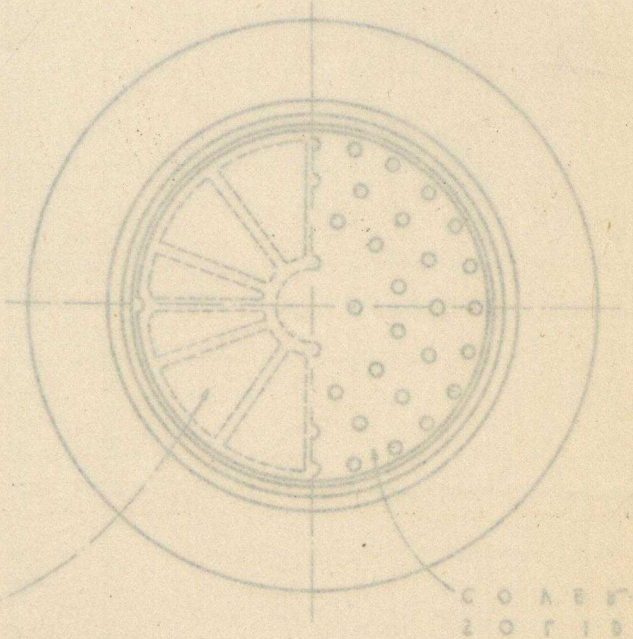
PATTERN No 448
WEIGHT 155 LBS.
[TRAFFIC BUILDINGS ADM. OPEN SEWER
OR DRAIN SEWER MANHOLE DETAIL
MH. 18 & MH 19]





PATTERN No 112
WEIGHT 255 LBS.
[TRAFFIC BUILDINGS ADM. OPEN
SEWER MH. DETAIL No 5-C & MH-20]

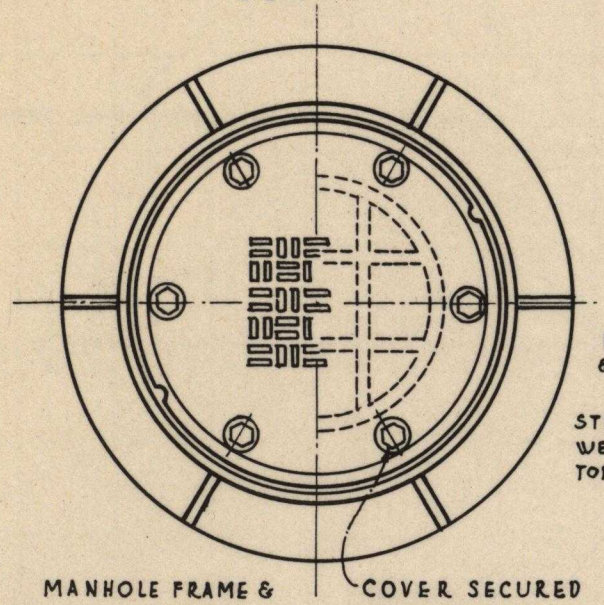




·CAST IRON· MANHOLE FRAMES & COVERS·

·LOCKING·DEVICE·DETAILS·

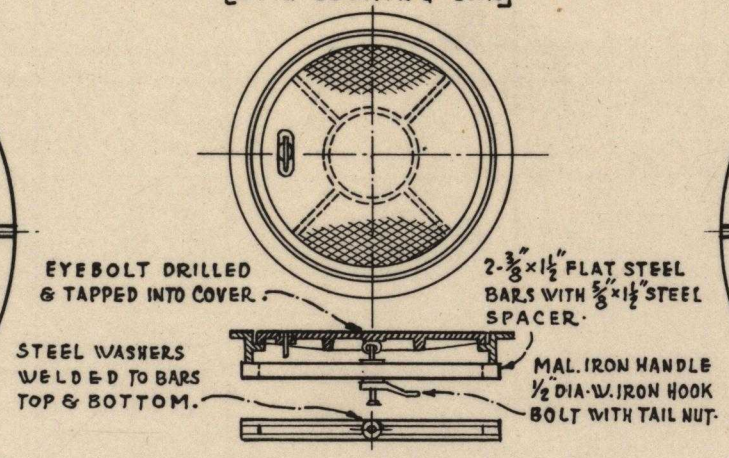
·HEAVY·



·LIGHT & MEDIUMWEIGHT·

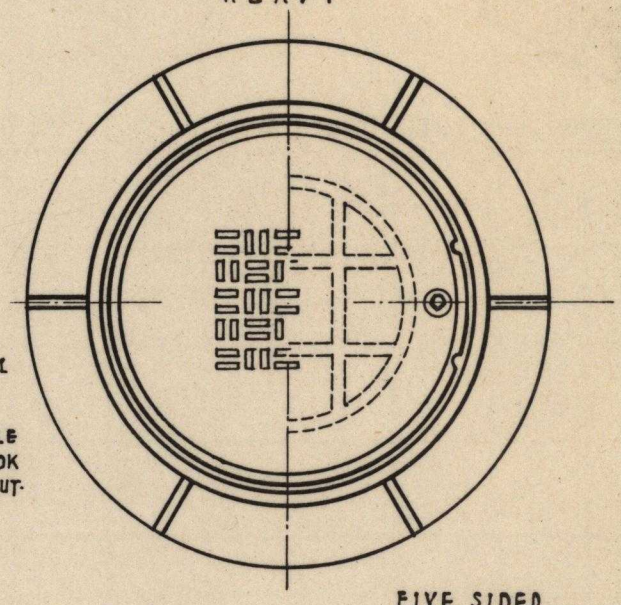
LOCKED FROM UNDERSIDE

[WITH LOCKING BAR]



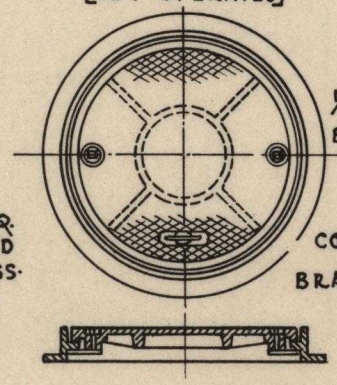
LOCKING BAR CAN BE USED ON ALL LIGHT & MEDIUMWEIGHT FRAMES & COVERS SHOWN ON DATA SHEETS Nº 100 & 101 ALSO ON ANY HEAVY TOP FLANGE MANHOLES·

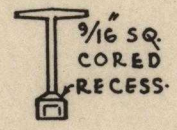
·HEAVY·



LOCKED FROM TOP–

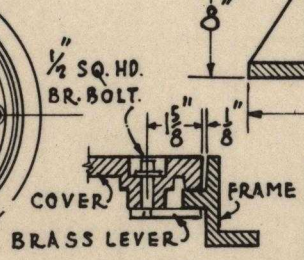
[KEY OPERATED]





KEY

·CAST·IRON·



·SEC·LOCKING DEVICE·

DOUBLE KEY OPERATED LOCKING DEVICE USED ON ALL LIGHT & MEDIUMWEIGHT FRAMES & COVERS DATA SHEETS Nº 100 & 101.

PATTERN Nº	A	B	C	D	WEIGHT
117	22	32	20	1¼	425
118	26	36	24	1¼	500
119	32	42	30	1½	750
120	38	48	36	1½	1000
121	44	54	42	1½	1250
122	50	60	48	1¾	1500

PATTERN Nº	A	B	C	D	WEIGHT
62	24	36	22	1¼	500
63	30	42	28	1½	725
64	36	48	34	1½	825
65	42	54	40	1½	1025
66	48	60	46	1¾	1225

·ANY MANHOLE COVER CAN BE FURNISHED BOLTED TO FRAME, WITH PRISON TYPE BOLTS·

CONTRACTORS FOUNDRY INC., PHILA., PA.

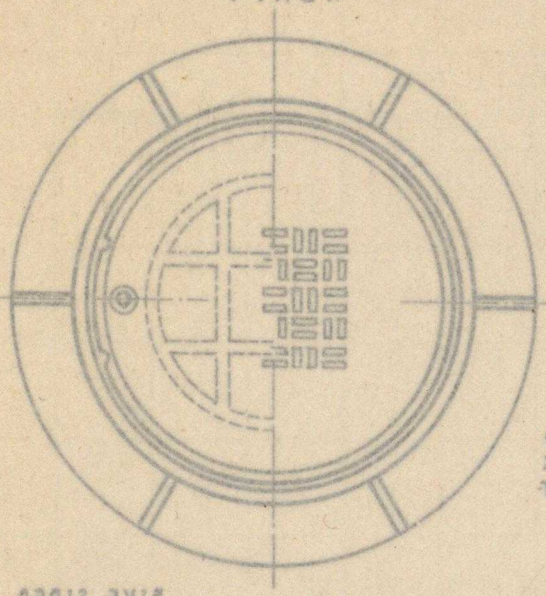
DATA SHEET Nº 105

REVISED 4/30/41

CAST IRON MANHOLE FRAMES & COVERS

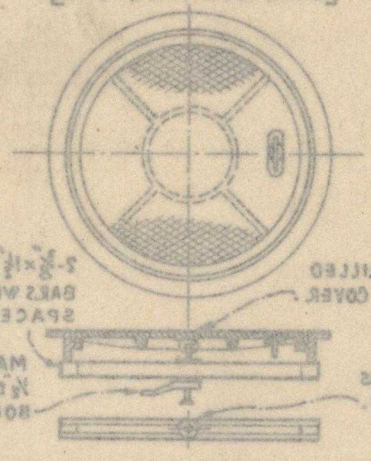
LOCKING DEVICE DETAILS

HEAVY



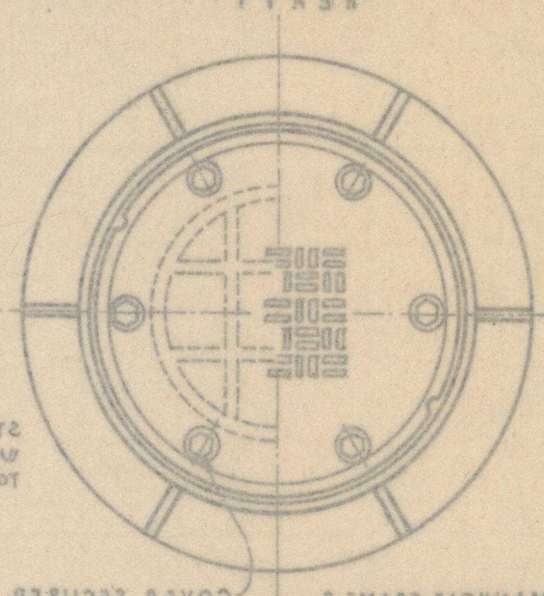
LIGHT & MEDIUMWEIGHT

LOCKED FROM UNDERSIDE
[WITH LOCKING BAR]



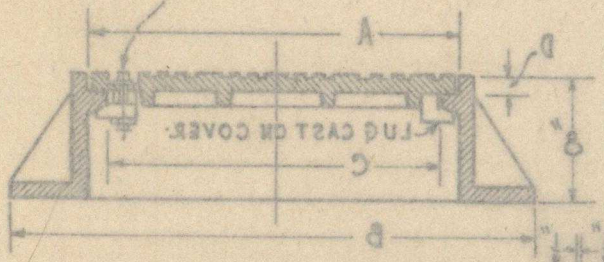
LOCKING BAR CAN BE USED ON ALL LIGHT & MEDIUMWEIGHT FRAMES & COVERS SHOWN ON DATA SHEETS Nº 100 & 101 ALSO ON ANY HEAVY TOP FLANGE MANHOLES.

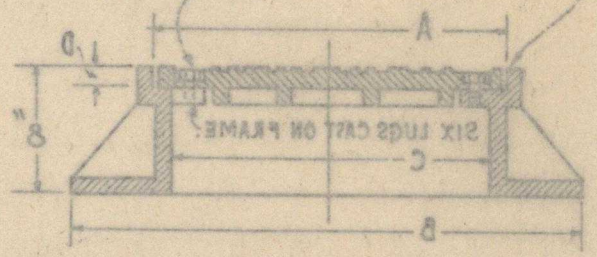
HEAVY



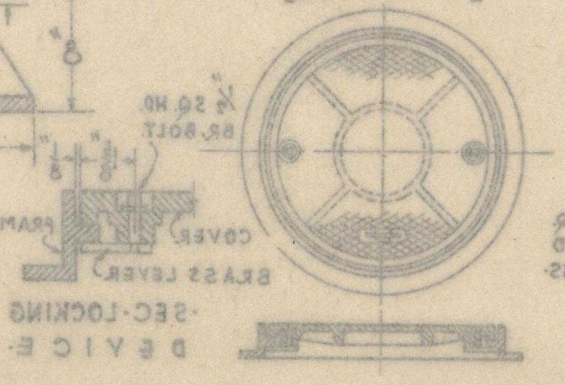
MANHOLE FRAME & COVER MACHINED.

COVER SECURED WITH SIX BRONZE TAP BOLTS.

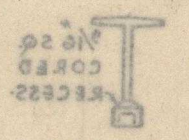




LOCKED FROM TOP ~
[KEY OPERATED]



SEC-LOCKING DEVICE.



KEY
CAST T-IRON.

DOUBLE KEY OPERATED LOCKING DEVICE USED ON ALL LIGHT & MEDIUMWEIGHT FRAMES & COVERS DATA SHEETS Nº 100 & 101.

PATTERN Nº	A	B	C	D	WEIGHT
62	24	36	22	1 1/4	500
63	30	42	28	1 1/4	725
64	36	48	34	1 1/4	825
65	42	54	40	1 1/4	1025
66	48	60	46	1 1/4	1225

PATTERN Nº	A	B	C	D	WEIGHT
117	22	32	20	1 1/4	425
118	26	36	24	1 1/4	500
119	32	42	30	1 1/4	750
120	38	48	36	1 1/4	1000
121	44	54	42	1 1/4	1250
122	50	60	48	1 1/4	1500

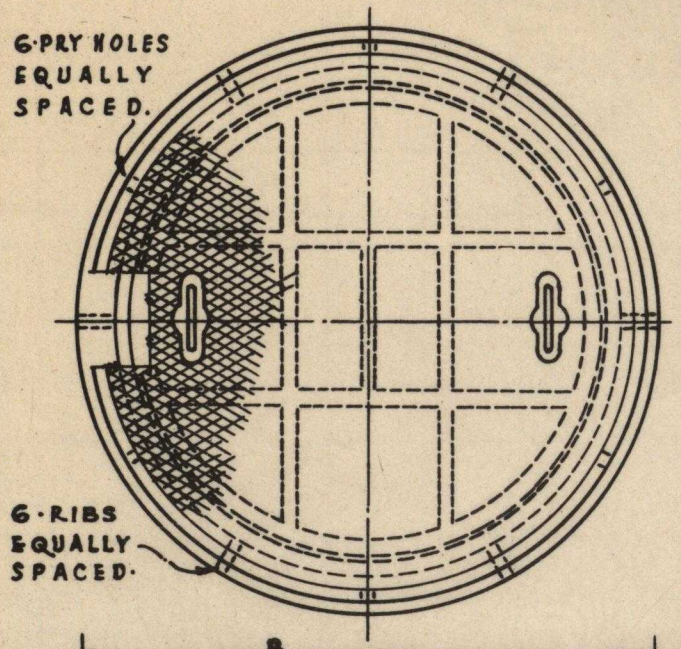
ANY MANHOLE COVER CAN BE FURNISHED BOLTED TO FRAME WITH PRISON TYPE BOLTS.

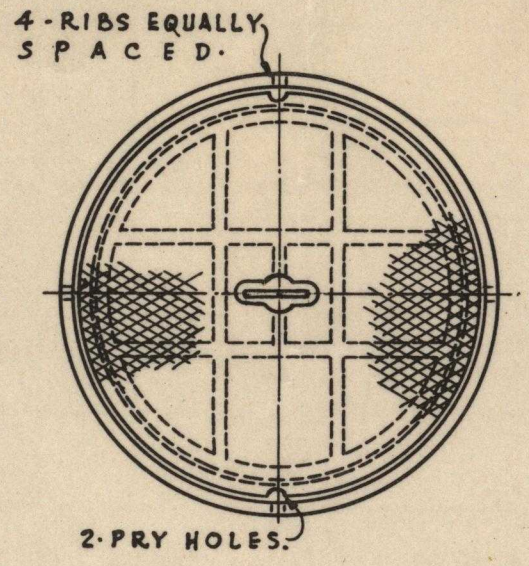
CONTRACTORS FOUNDRY INC., PHILA., PA.

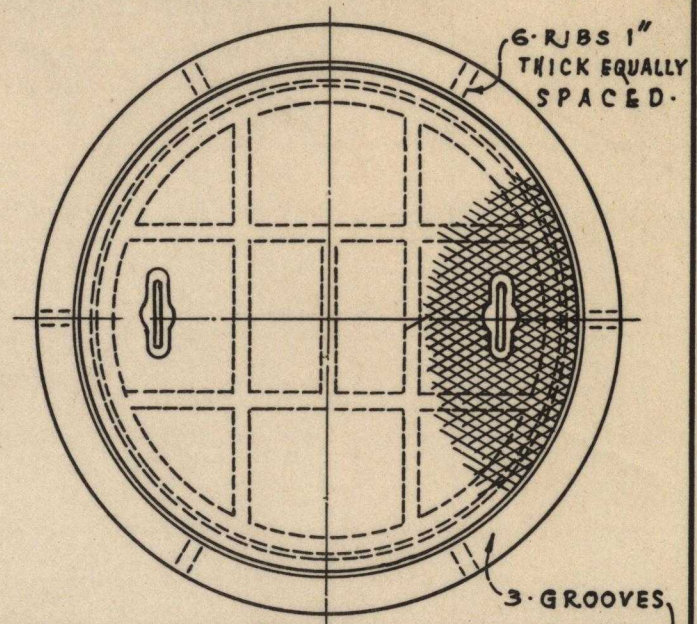
DATA SHEET Nº 105

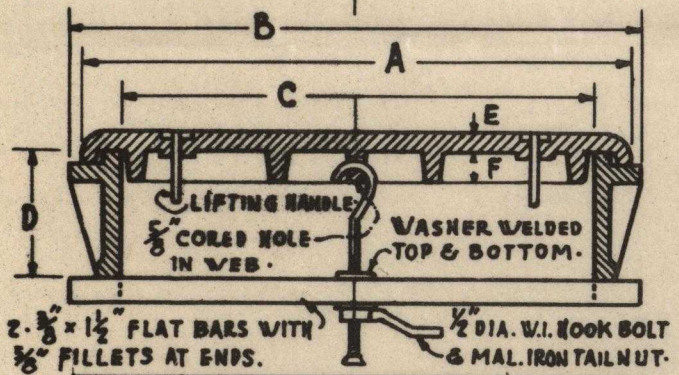
REVISED 1/30/41

·CAST IRON·HEAVY COAL HOLE RINGS & COVERS·





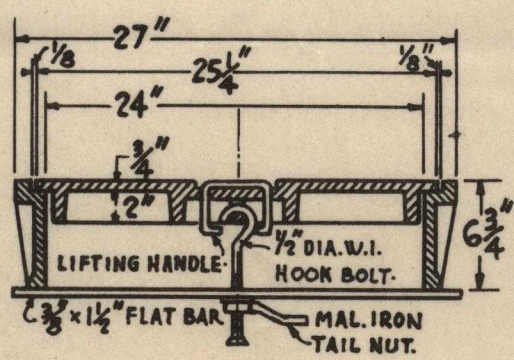




PATTERN Nº	A	B	C	D	E	F	WEIGHT
185	21¼	22	18	4	¾	1¼	150
186	28	29	24	6	1	1½	350
187	35	36	30	8	1¼	2	700

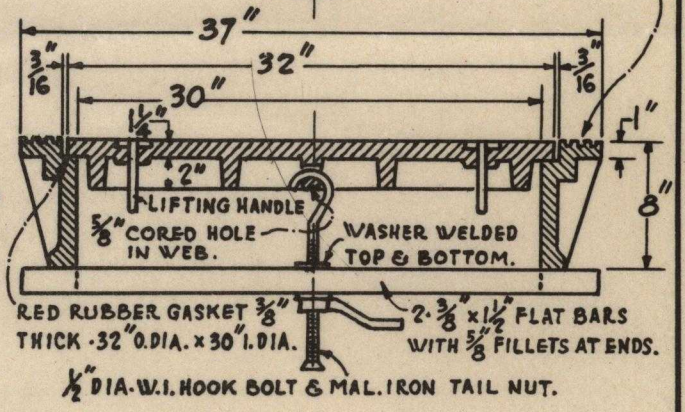
[PATT. Nº 187 IS U.S. TREASURY DEPT. DETAIL Nº 5]

NOTE·PATTERN Nºs. 185·186 HAVE ONE FLUSH LIFT HANDLE.



PATTERN Nº 129
WEIGHT 350 LBS.

[PUBLIC BLDGS ADM. DETAIL Nº SA-35]



PATTERN Nº 98
WEIGHT 725·LBS.

[U.S. TREASURY DEPT. DETAIL Nº 5 MODIFIED]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 106

REVISED 1/18/41

CONTRACTORS FOUNDRY INC. PHILA. PA.

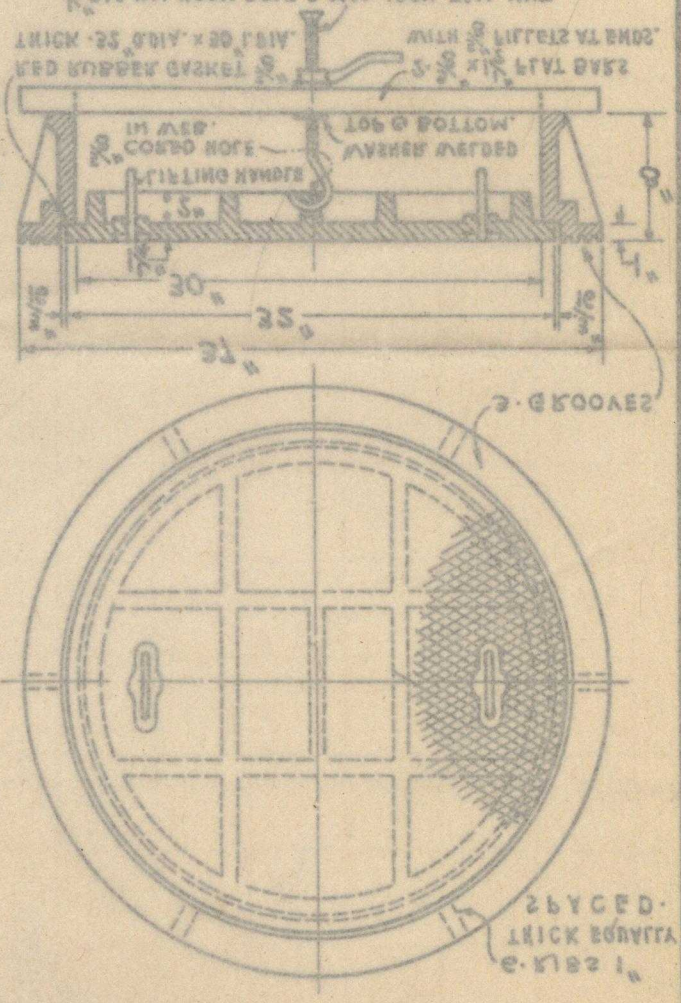
DATA SHEET No 106

CAST IRON · HEAVY COAL HOLE RINGS & COVERS.

PATTERN No 98

WEIGHT 225 LBS.

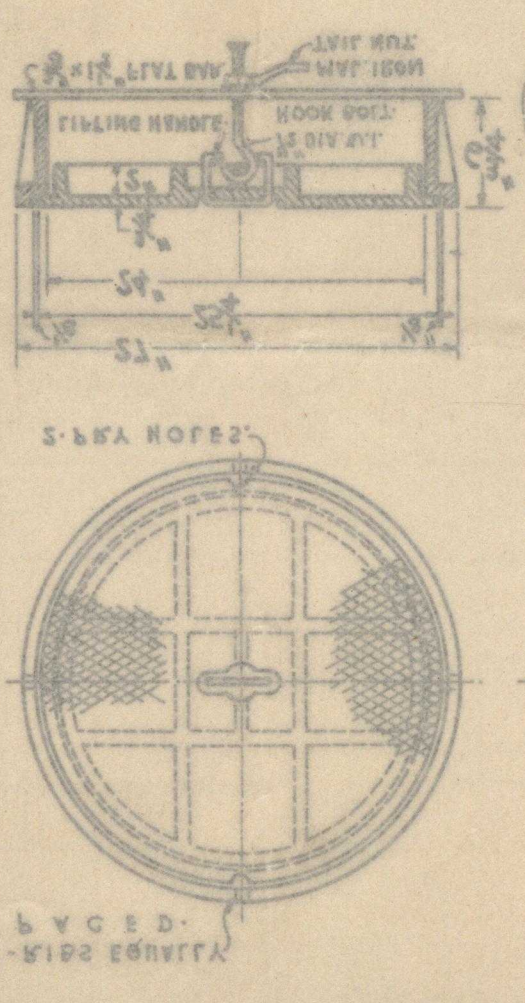
[U.S. TREASURY DEPT. DETAIL No 2 MODIFIED]



PATTERN No 159

WEIGHT 250 LBS.

[PUBLIC BUILDS ADM DETAIL No 2-58]



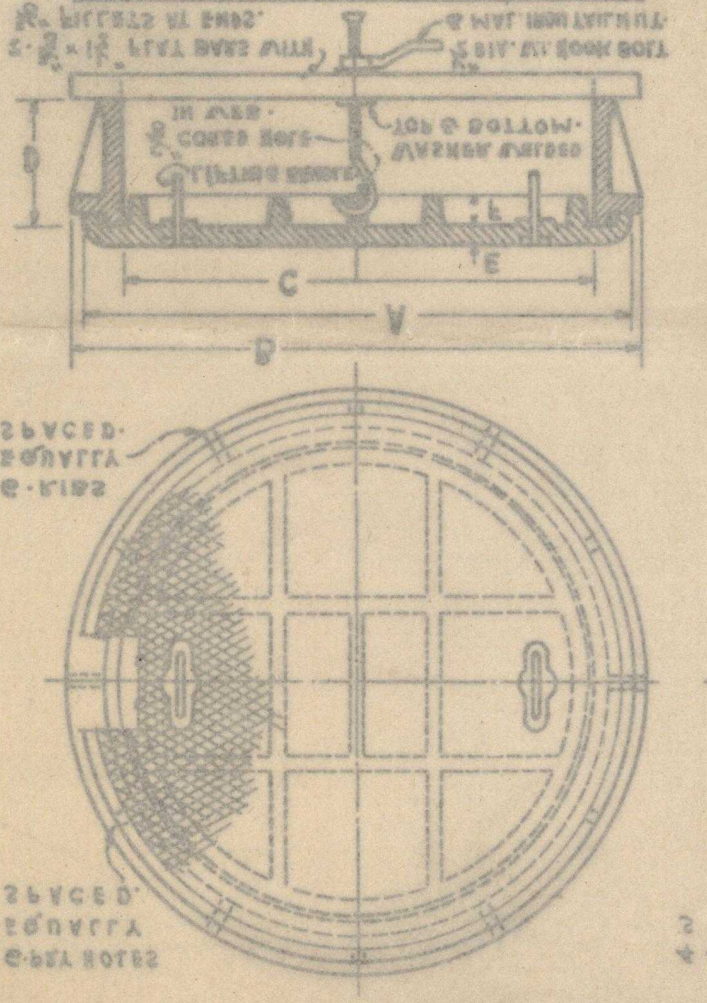
PATTERN No 1

WEIGHT 100 LBS.

[PAT. No 1 U.S. TREASURY DEPT. DETAIL No 2]

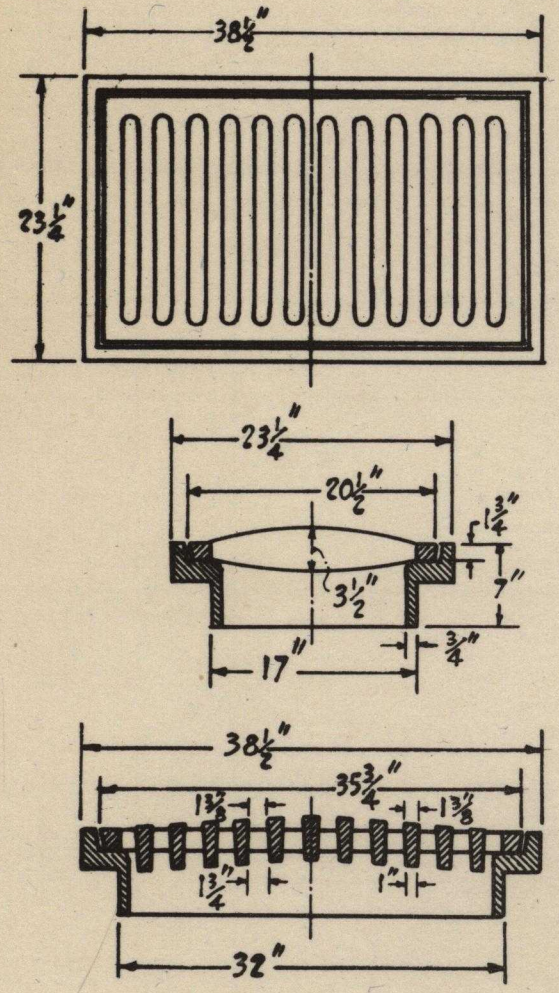
NOTE · PATTERNS 2, 158 · 159 HAVE ONE PLUSH LIFT HANDLE.

No PATTERN	A	B	C	D	E	F	WEIGHT
98	31 1/2	35	30	4	1 1/2	1	225
159	29	33	24	6	1	1 1/2	250
1	22 1/2	25	18	4	3/4	1 1/2	100

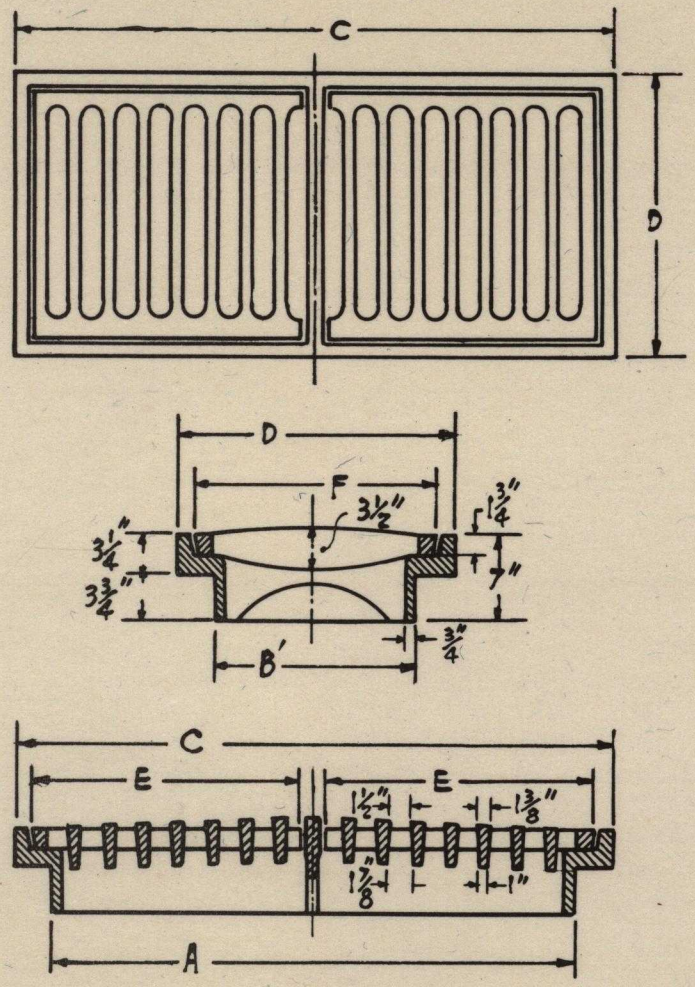


10.5 Wt

CAST IRON HEAVY HIGHWAY FRAMES & GRATINGS.

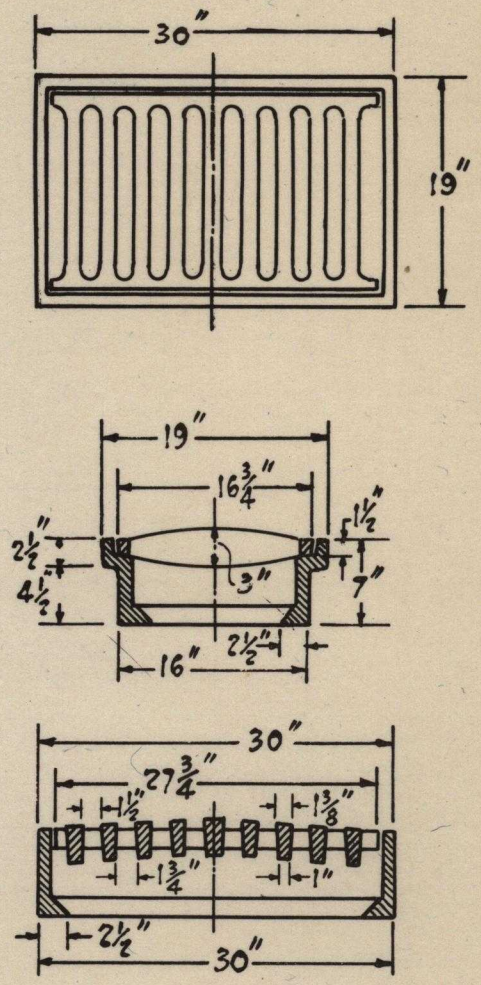


PATTERN Nº 313
WEIGHT 550·LBS.



PATTERN Nº	A	B	C	D	E	F	WEIGHT
311	56	17	62½	23½	28¾	20½	750
312	44	17	50½	23½	23⅜	20½	675

NOTE
[PATTERN Nº 312 IS STANDARD CATCH BASIN PUBLIC BLDGS ADM. DETAIL MH. 22]



PATTERN Nº 314
WEIGHT 400·LBS.

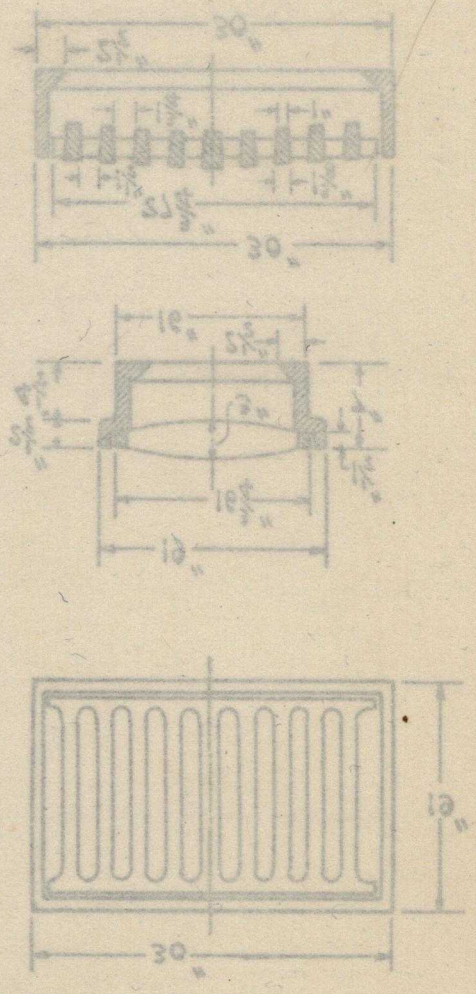
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 107

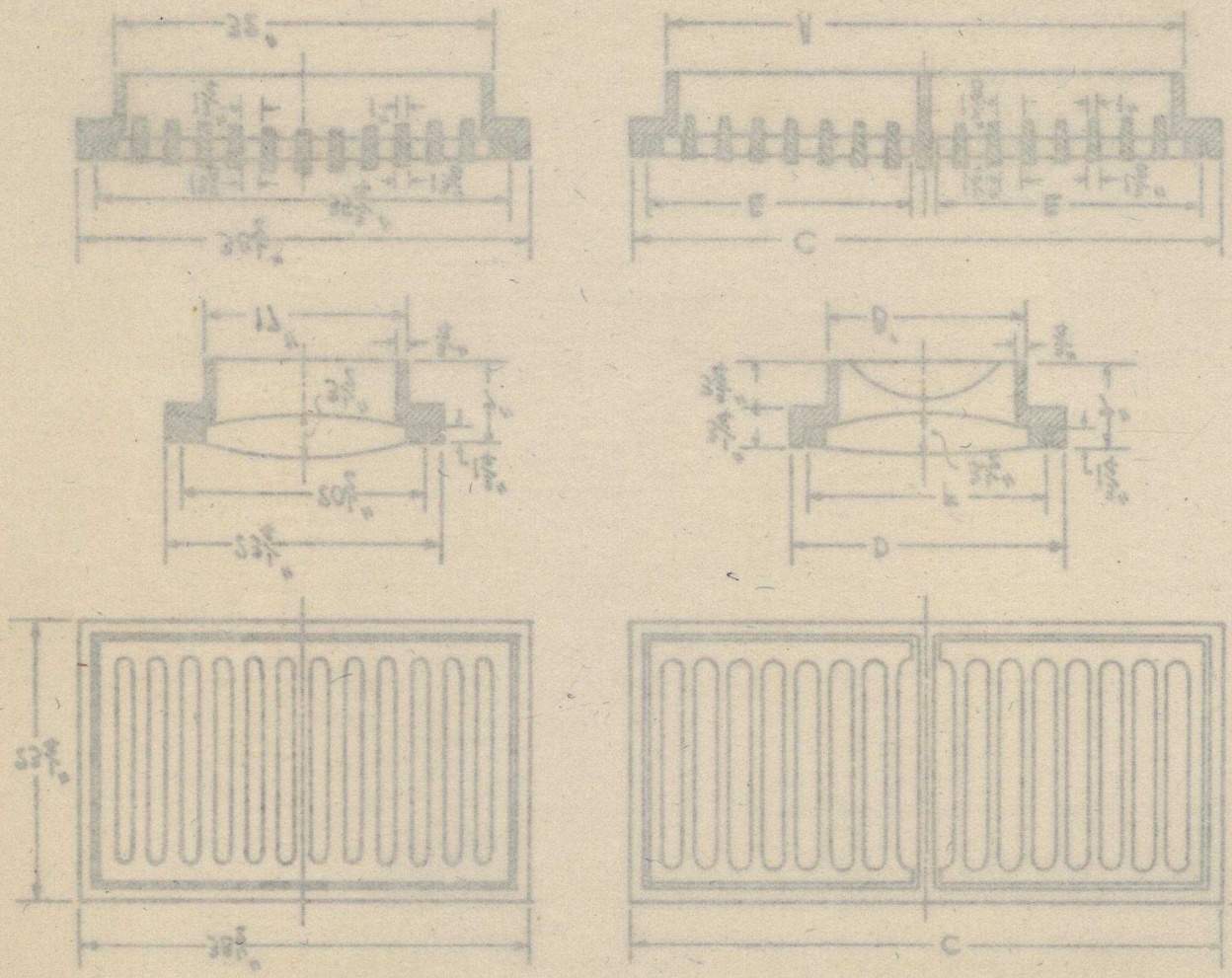
REVISED 4/2/41

CAST IRON HEAVY HIGHWAY FRAMES & GRATINGS.

PATTERN No 314 — WEIGHT 400 LBS.



PATTERN No 313 — WEIGHT 250 LBS.



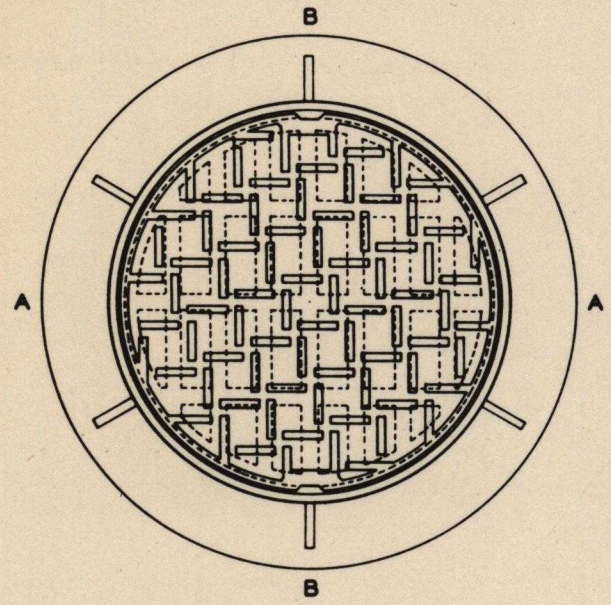
NOTE

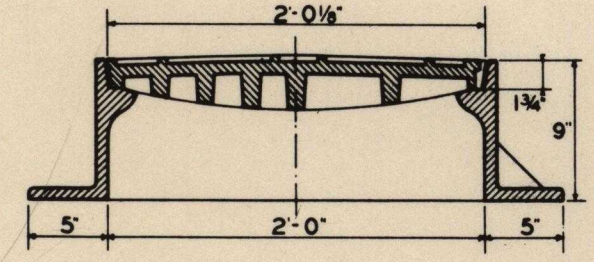
PATTERN No	A	B	C	D	E	F	WEIGHT
314	30	19	30	19	12	30	400
313	25	17	25	17	12	20	250

[PATTERN No 313 IS STANDARD CATCH BASIN PUBLIC ROADS ADM. DETAIL MH-22]

CAST IRON HEAVY HIGHWAY MANHOLE FRAMES AND COVERS

FRAME AND SOLID COVER



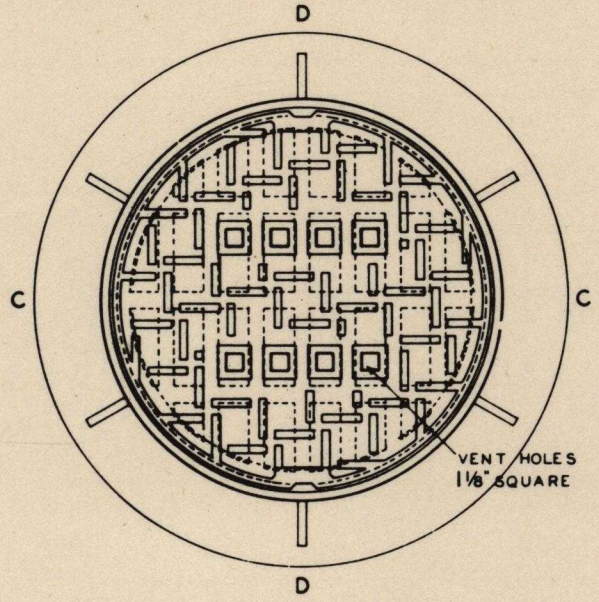


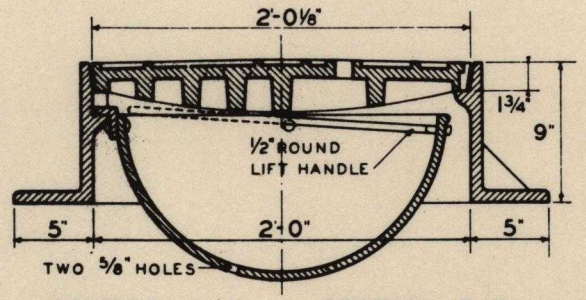
SECTION A-A SECTION B-B

PATTERN NO. 496-A

WEIGHT 450 LBS.

FRAME AND VENTED COVER WITH BUCKET





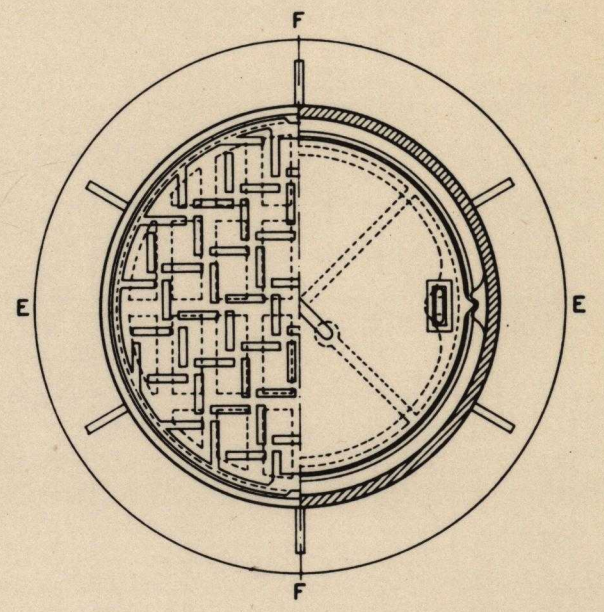
SECTION C-C SECTION D-D

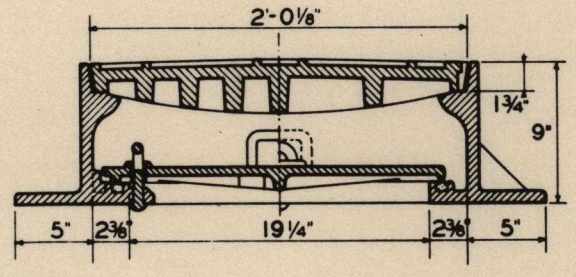
PATTERN NO. 496-B

WEIGHT 510 LBS.

ALL COVERS LETTERED AS REQUIRED

WATERTIGHT FRAME WITH DOUBLE COVER





SECTION E-E SECTION F-F

PATTERN NO. 496-C

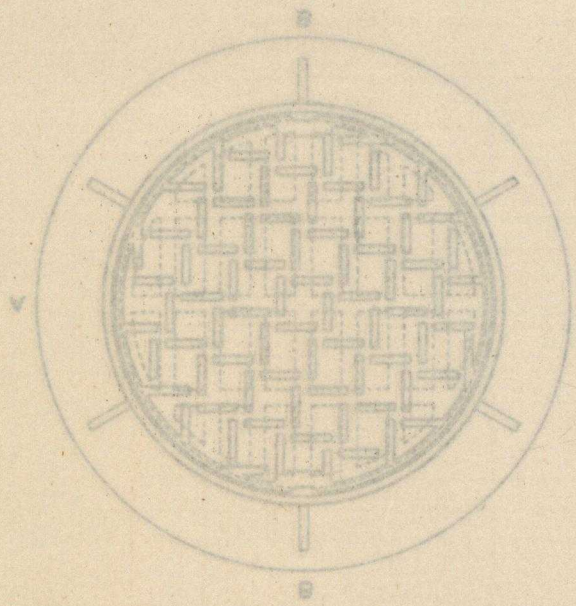
WEIGHT 525 LBS.

CONTRACTORS FOUNDRY PHILADELPHIA PA

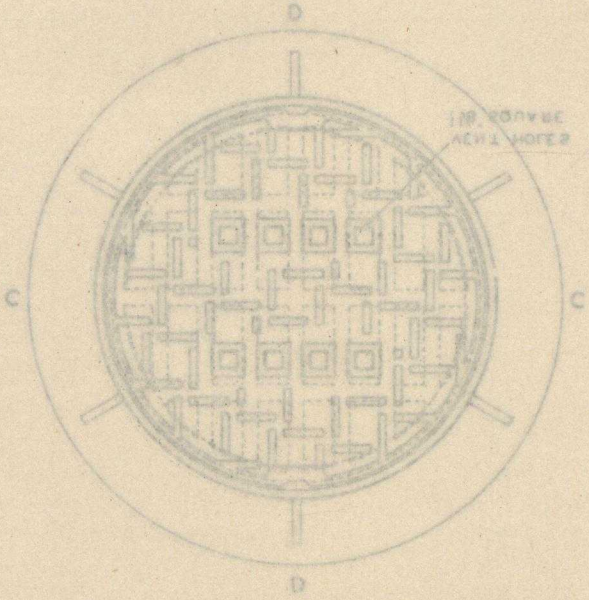
DATA SHEET NO. 107

8-27-47 J

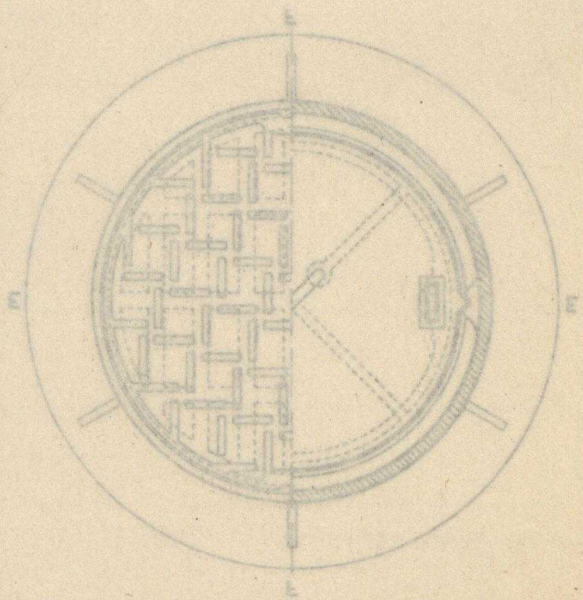
CAST IRON HEAVY HIGHWAY MANHOLE FRAMES AND COVERS



FRAME AND
SOLID COVER

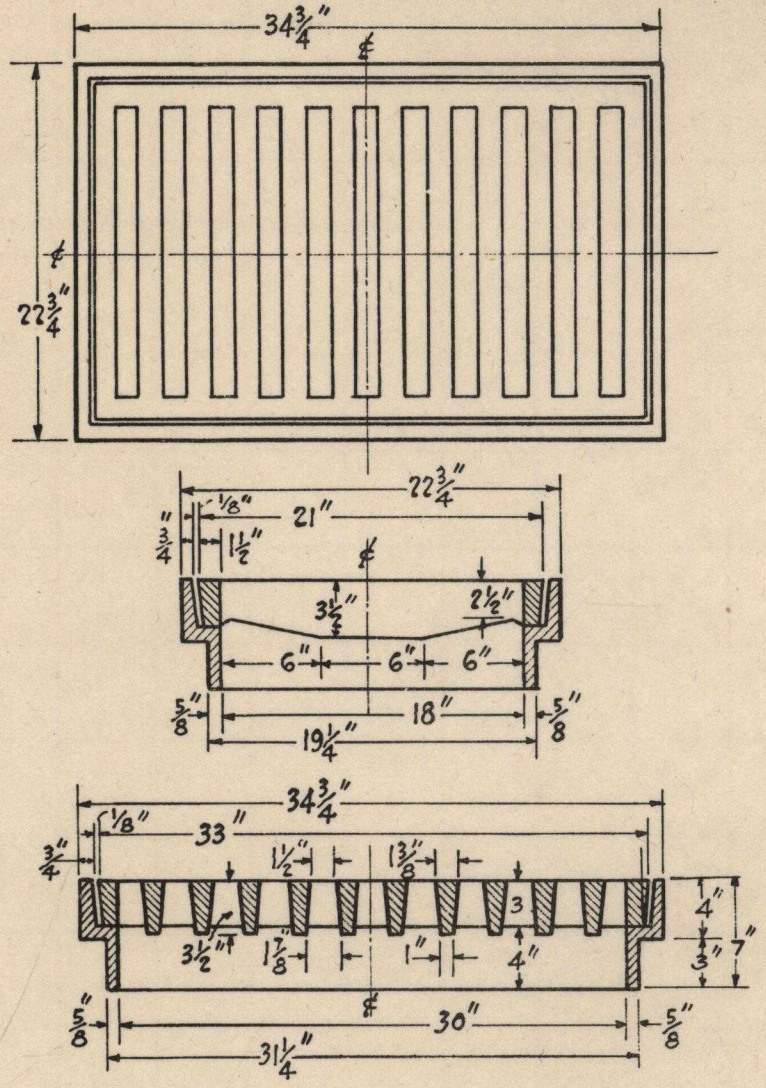


FRAME AND VENTED COVER
WITH BUCKET

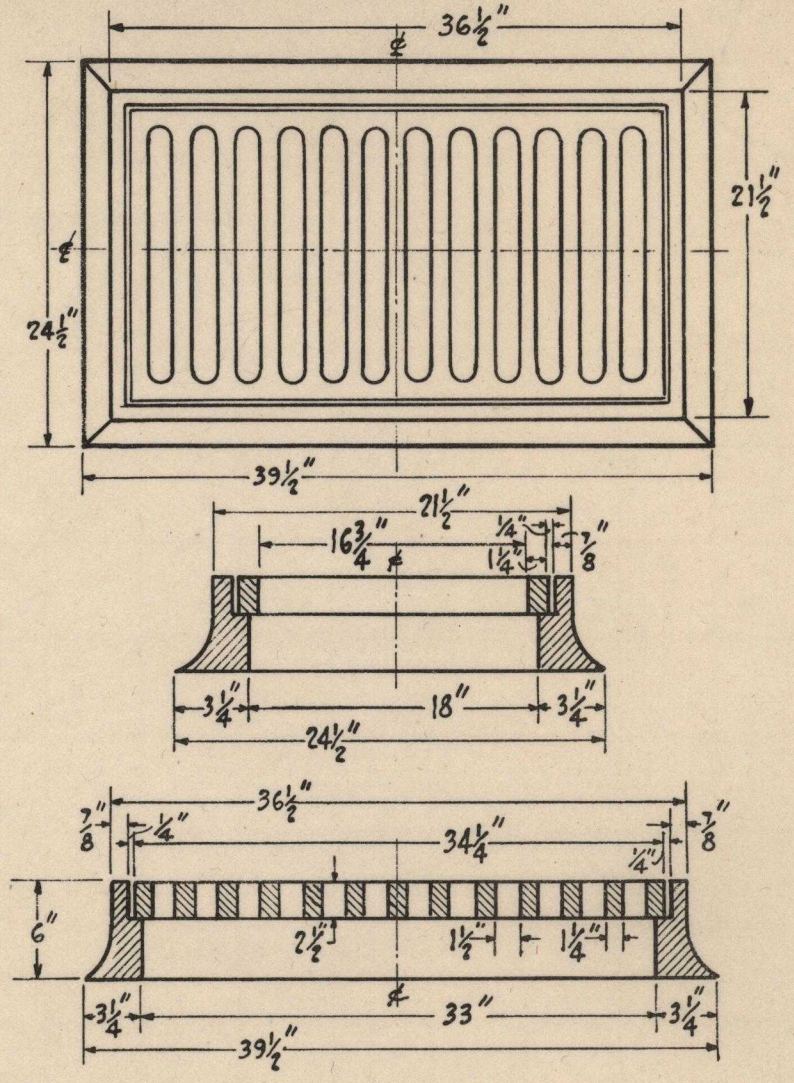


WATERTIGHT FRAME
WITH DOUBLE COVER

CAST IRON · HEAVY HIGHWAY FRAMES & GRATES.



PATTERN No 303
WEIGHT 500 · LBS.
[PENNA · HIGHWAY INLET STANDARD TYPE E]



PATTERN No 309
WEIGHT 490 · LBS.
[DELAWARE HIGHWAY INLET STANDARD]

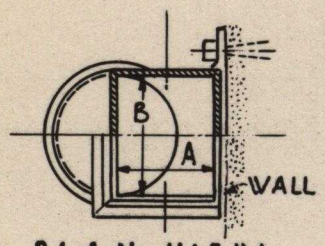
CAST IRON · HEAVY HIGHWAY FRAMES & GRATES.

PATTERN No 305
WEIGHT 400 · LBS.
[DELAWARE HIGHWAY INLET STANDARD]

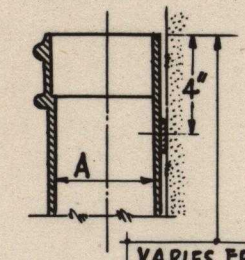
PATTERN No 306
WEIGHT 500 · LBS.
[PENNA · HIGHWAY INLET STANDARD TYPE E]

·CAST IRON·DOWNSPOUT·SHOES·

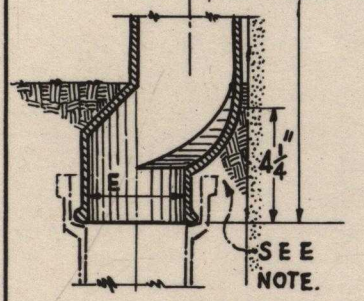
·LEADER·BOOTS·



PLAN VIEW & SECTION·

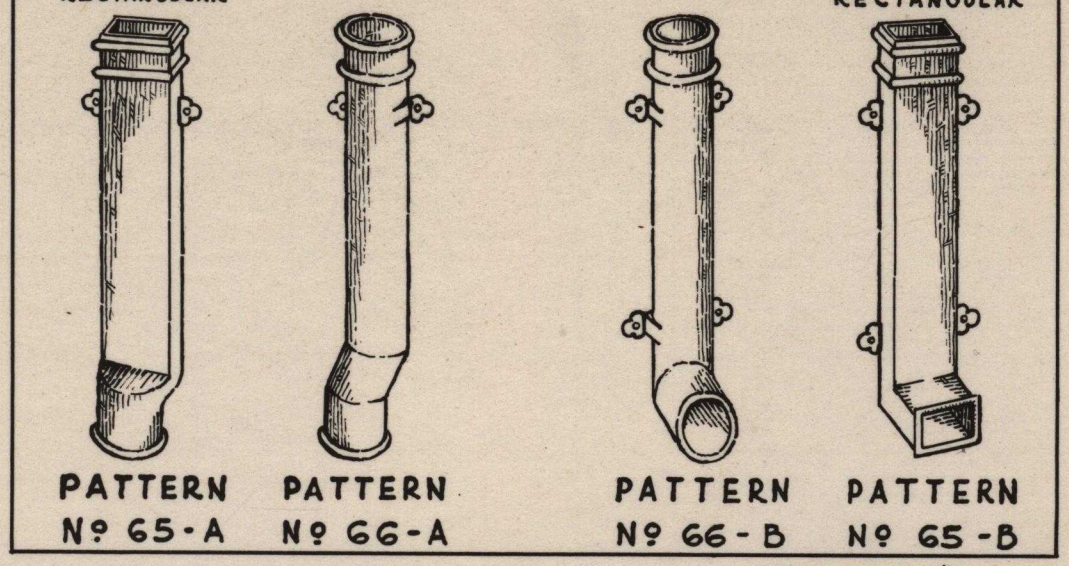


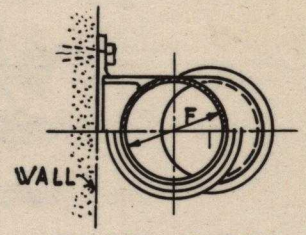
VARIES FROM 12" TO 72" ADVANCING EVERY 6".



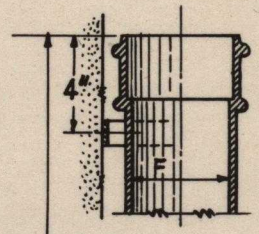
SEC. ELEVATION
PATTERN Nº 65-A

NOTE·SOIL PIPE CLEARANCE WITH WALL.

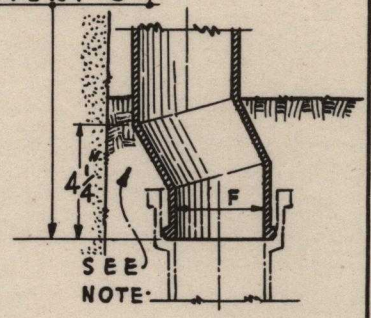




PLAN VIEW & SECTION

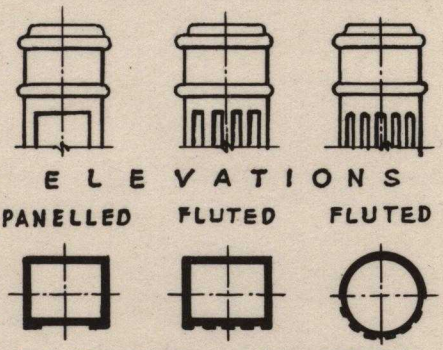


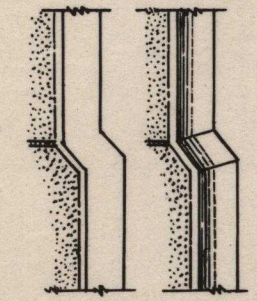
VARIES FROM 12" TO 72" ADVANCING EVERY 6"



SEC. ELEVATION
PATTERN Nº 66-A

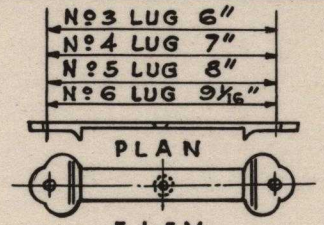
NOTE·SOIL PIPE CLEARANCE WITH WALL.





·OFFSET·

ANY PATTERN CAN BE OFFSET·



DETAIL·OF·LUG

NO LUGS FURNISHED ON THE 12" AND 18" SHOES UNLESS REQUIRED. ONE LUG IS FURNISHED ON ALL LONGER SHOES. LUG IS ATTACHED TO SHOE BY ¼" CSK. MACH. SCREW 4" BELOW TOP.

Nº 65·A SHOES [SQUARE & RECTANGULAR]							
A × B = SPOUT SIZE	2"×2"	2"×3"	3"×3"	3"×4"	4"×4"	4"×5"	4"×6"
E = OUTLET DIA.	3"	3"	4"	4"	4"	4"	5"
LUG USED	Nº3	Nº3	Nº4	Nº4	Nº5	Nº5	Nº6
APPROX·WEIGHT LBS·PER FOOT.	12	12	15	15	18	18	22

Nº 66·A SHOES [ROUND]			
F = SPOUT SIZE	3" DIA·	4" DIA·	5" DIA·
F = OUTLET DIA.	3"	4"	5"
LUG USED	Nº3	Nº4	Nº5
APPROX·WEIGHT LBS·PER FOOT·	11	14	16

STANDARD OVERALL LENGTH, ALL SHOES · 12"·18"·24"·30"·36"·42"·48"·54"·60"·72"·

·ALL SHOES PRIME COATED BEFORE SHIPPING.

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DATA SHEET Nº 109

10·27·39·

CONTRACTORS FOUNDRY INC. PHILA. PA.

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·ALL SHOES PRIME COATED BEFORE SHIPPING·

STANDARD OVERALL LENGTH ALL SHOES · 15" · 18" · 24" · 30" · 36" · 42" · 48" · 54" · 60" · 72"

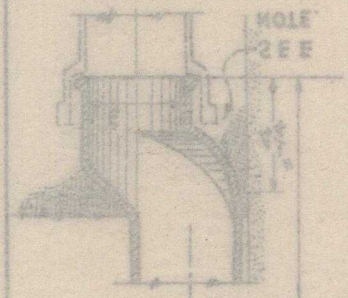
No CS-A SHOES [SQUARE & RECTANGULAR]							
A × B = SPOUT SIZE	3"×3"	4"×3"	3"×4"	4"×4"	4"×5"	5"×4"	5"×6"
E = OUTLET DIA.	3/4"	3/4"	1"	1"	1"	1"	2"
LUG USED	No 3	No 3	No 4	No 4	No 5	No 5	No 6
APPROX. WEIGHT	15	15	18	18	18	18	22
LEAD-PAN FOOT							

No CC-A SHOES [ROUND]			
D = SPOUT SIZE	3" DIA.	4" DIA.	5" DIA.
E = OUTLET DIA.	3/4"	1"	2"
LUG USED	No 3	No 4	No 5
APPROX. WEIGHT	11	14	16
LEAD-PAN FOOT			

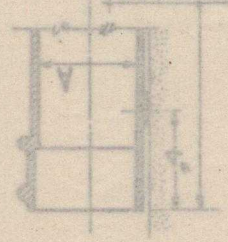
CLEARANCE WITH WALL
NOTE · SOIL PIPE

PATTERN No CS-A

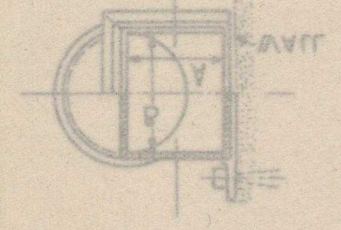
SEC. ELEVATION



EAVES 6"
ADVANCING
15" TO 15"
AWAY FROM



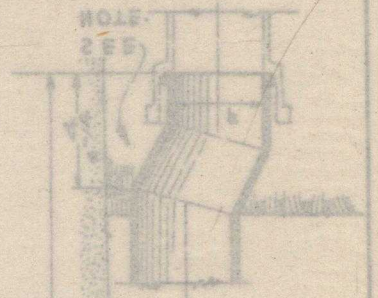
PLAN VIEW



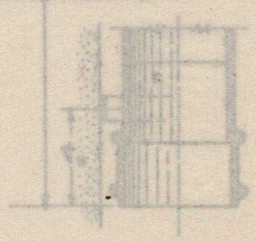
CLEARANCE WITH WALL
NOTE · SOIL PIPE

PATTERN No CC-A

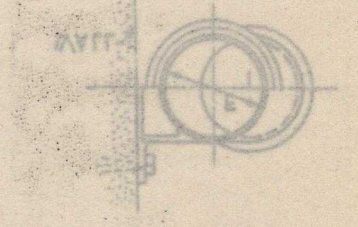
SEC. ELEVATION



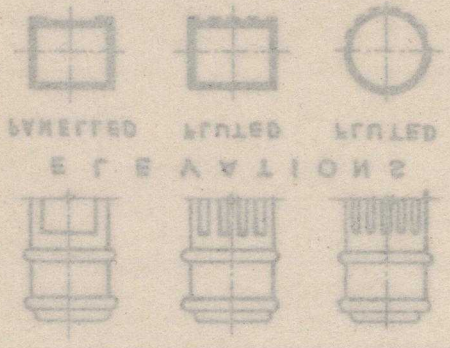
EAVES 6"
ADVANCING
15" TO 15"
AWAY FROM



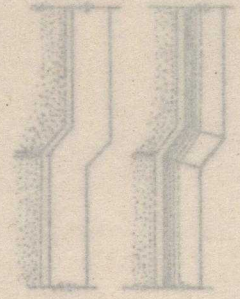
PLAN VIEW



SECTIONAL · PLAN · VIEWS



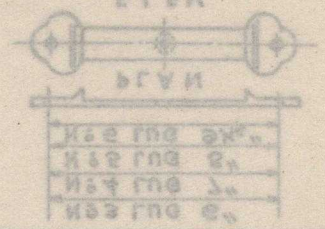
ELEVATIONS



·OPEN SET·

ANY PATTERN CAN BE OFFSET

DETAIL · OF · LUG



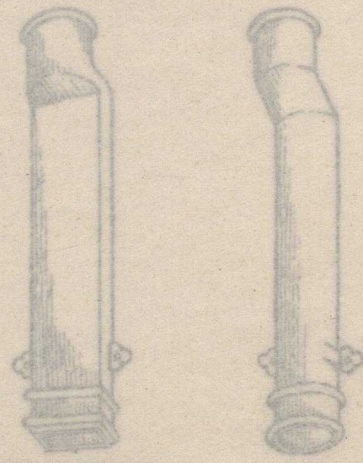
NO LUGS FURNISHED ON THE 15" AND 18" SHOES UNLESS ORDERED. ONE LUG IS FURNISHED ON ALL LONGER SHOES. LUG IS ATTACHED TO SHOE BY A CAST MACH. SCREW 4" BELOW TOP.

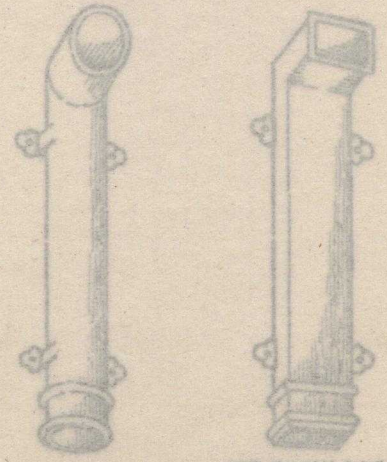
PATTERN No CS-A

PATTERN No CC-A

PATTERN No CS-B

PATTERN No CC-B





RECTANGULAR
SQUARE · OR

ROUND

ROUND

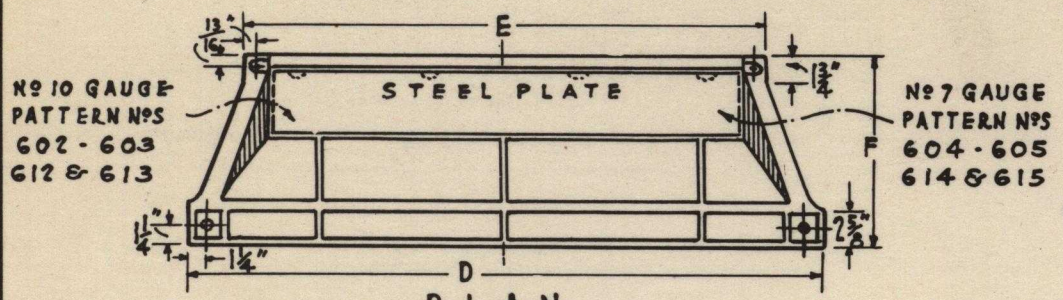
RECTANGULAR
SQUARE · OR

·LEADER · BOOTS·

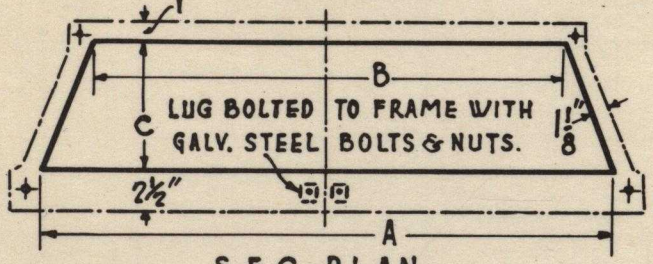
·CAST IRON · DOWNSPOUT · SHOES·

CAST IRON · FIREPLACE DAMPERS · STACK CLEANOUTS · ASH DUMP

·FIREPLACE·DAMPER·

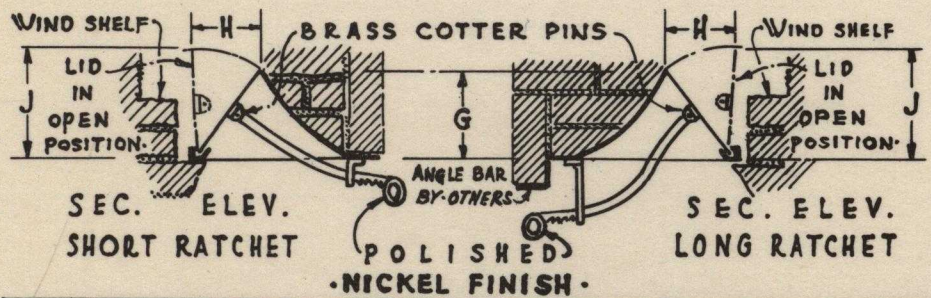


PLAN



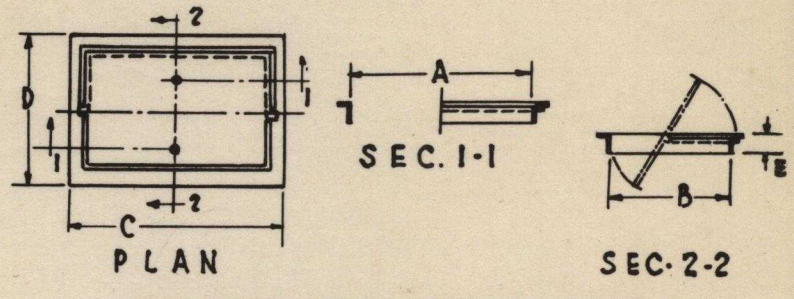
SEC·PLAN

SHOWING CLEAR OPENING IN FRAME·



SHORT RATCHET PATTERN Nº	LONG RATCHET PATTERN Nº	·DAMPER·DIMENSIONS·									WEIGHT IN LBS·
		A	B	C	D	E	F	G	H	J	
602	612	2'·6"	2'·0"	8½"	2'·9¾"	2'·3"	12"	5⅛"	4"	6½"	36
603	613	3'·0"	2'·6"	8½"	3'·3¾"	2'·9"	12"	5⅛"	4"	6½"	40
604	614	3'·6"	3'·0"	8½"	3'·9¾"	3'·3"	12"	5⅛"	4"	6½"	59
605	615	4'·0"	3'·6"	8½"	4'·3¾"	3'·9"	12"	5⅛"	4"	6½"	76

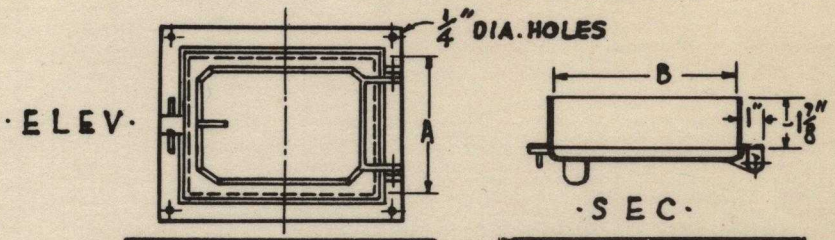
·ASH · DUMP·



PLAN SEC. 1-1 SEC·2-2

PATTERN Nº	A	B	C	D	E	WEIGHT·PER·DOZ
621	7⅜"	4½"	9 11/16"	6 3/16"	⅞"	36 LBS.

·HEAVY · STACK · CLEANOUTS·



·SEC·

PATTERN Nº	SIZE A	SIZE B	WEIGHT IN LBS.
550	5"	7"	7
551	6"	6"	8
552	6"	8"	9
553	6"	10"	10
554	7"	9"	10
555	8"	8"	10
556	8"	10"	12
+ 579	8"	12"	14
557	10"	10"	14
• 578	10"	12"	14
558	10"	12"	16
559	10"	14"	20
560	12"	12"	18
561	12"	15"	22
562	12"	16"	25
563	12"	18"	30

PATTERN Nº	SIZE A	SIZE B	WEIGHT IN LBS.
564	14"	16"	30
565	14"	20"	30
566	16"	16"	32
567	16"	20"	34
568	16"	24"	40
569	18"	12"	28
570	18"	18"	50
571	18"	20"	50
572	18"	24"	40
573	24"	18"	46
574	24"	24"	50
575	24"	30"	100
577	30"	24"	97
576	36"	24"	125

+ PATTERN Nº 579 FRAME 2" DEEP.
• PATTERN Nº 578 FRAME 3" DEEP.

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 110

REVISED 4/21/41

CONTRACTORS FOUNDRY INC. PHILA. PA.

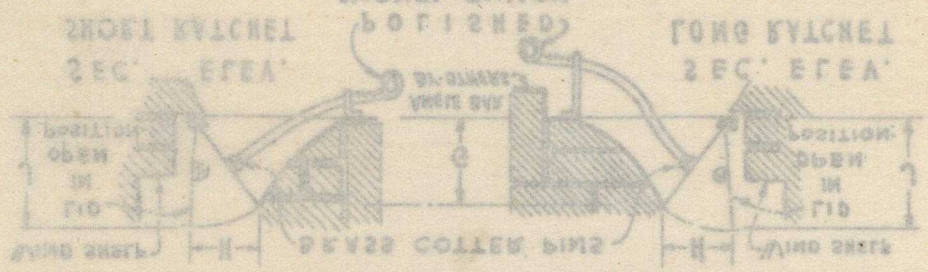
DATA SHEET No 110

PATTERN	SIZE	WEIGHT
No	A	B	IN LBS.
S50	4	4	6
S51	5	5	8
S52	5	8	8
S53	5	10	10
S54	6	6	10
S55	6	8	10
S56	6	10	12
S57	6	12	12
S58	7	10	12
S59	7	12	14
S60	8	8	14
S61	8	10	16
S62	8	12	18
S63	10	12	20
S64	10	14	25
S65	10	15	30
S66	12	12	35
S67	12	15	40
S68	12	18	45
S69	14	14	50
S70	14	16	55
S71	14	18	60
S72	14	20	65
S73	14	24	70
S74	16	16	80
S75	16	18	90
S76	16	20	100
S77	16	24	120
S78	18	18	125
S79	18	20	140
S80	18	24	150
S81	18	30	175
S82	20	20	200
S83	20	24	225
S84	20	30	250
S85	24	24	300
S86	24	30	350
S87	24	36	400
S88	30	30	500
S89	30	36	600
S90	36	36	750

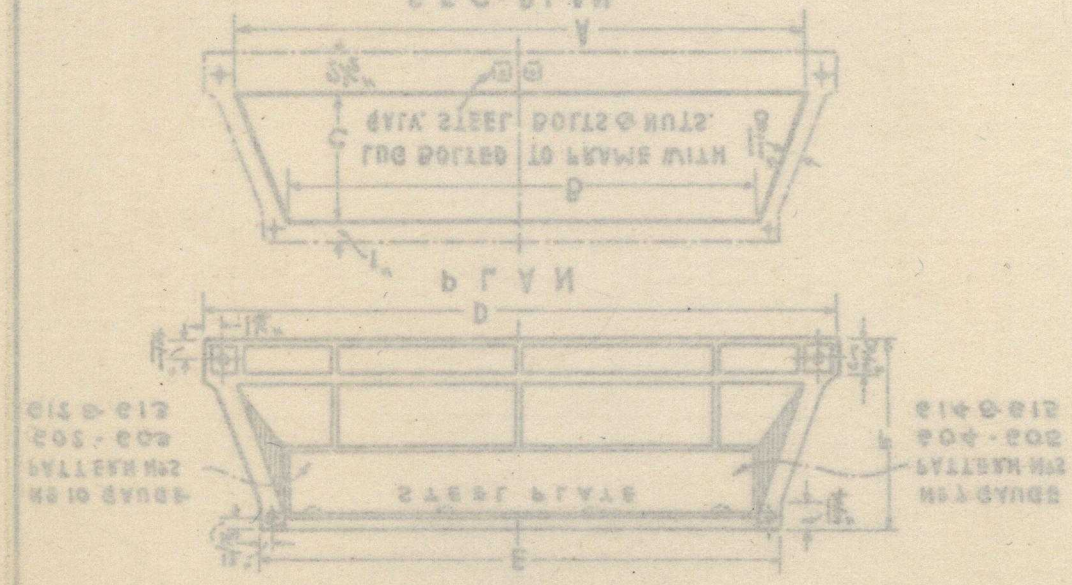
* PATTERN No S76 FRAME 3"x1000

+ PATTERN No S79 FRAME 3"x1250

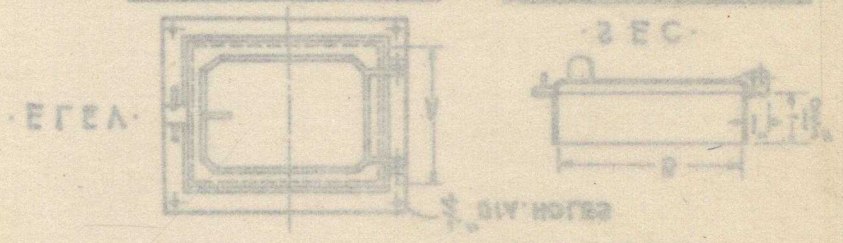
CAST IRON · FIREPLACE DAMPERS · STACK CLEANOUTS · ASH DUMP



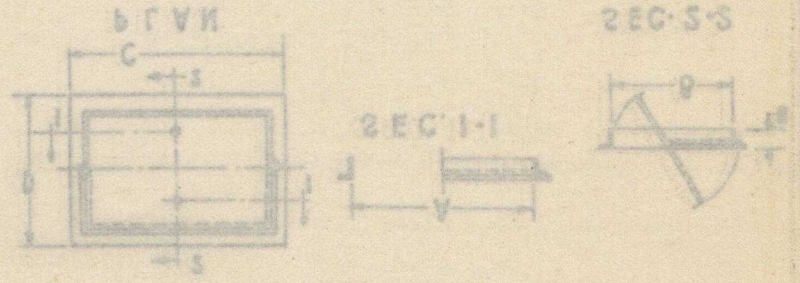
SHORT RATCHET	LONG RATCHET	DAMPER DIMENSIONS									WEIGHT IN LBS.
PATTERN No	PATTERN No	A	B	C	D	E	F	G	H	I	
C05	C15	3'-0"	2'-6"	8½"	3'-3½"	2'-6"	15"	2½"	4"	2½"	30
C04	C14	2'-6"	2'-0"	8½"	2'-6½"	2'-0"	15"	2½"	4"	2½"	65
C03	C13	2'-0"	1'-6"	8½"	2'-0½"	1'-6"	15"	2½"	4"	2½"	40
C02	C12	1'-6"	1'-0"	8½"	1'-6½"	1'-0"	15"	2½"	4"	2½"	25
C01	C11	1'-0"	8"	8½"	1'-0½"	8"	15"	2½"	4"	2½"	15



"FIREPLACE DAMPER"

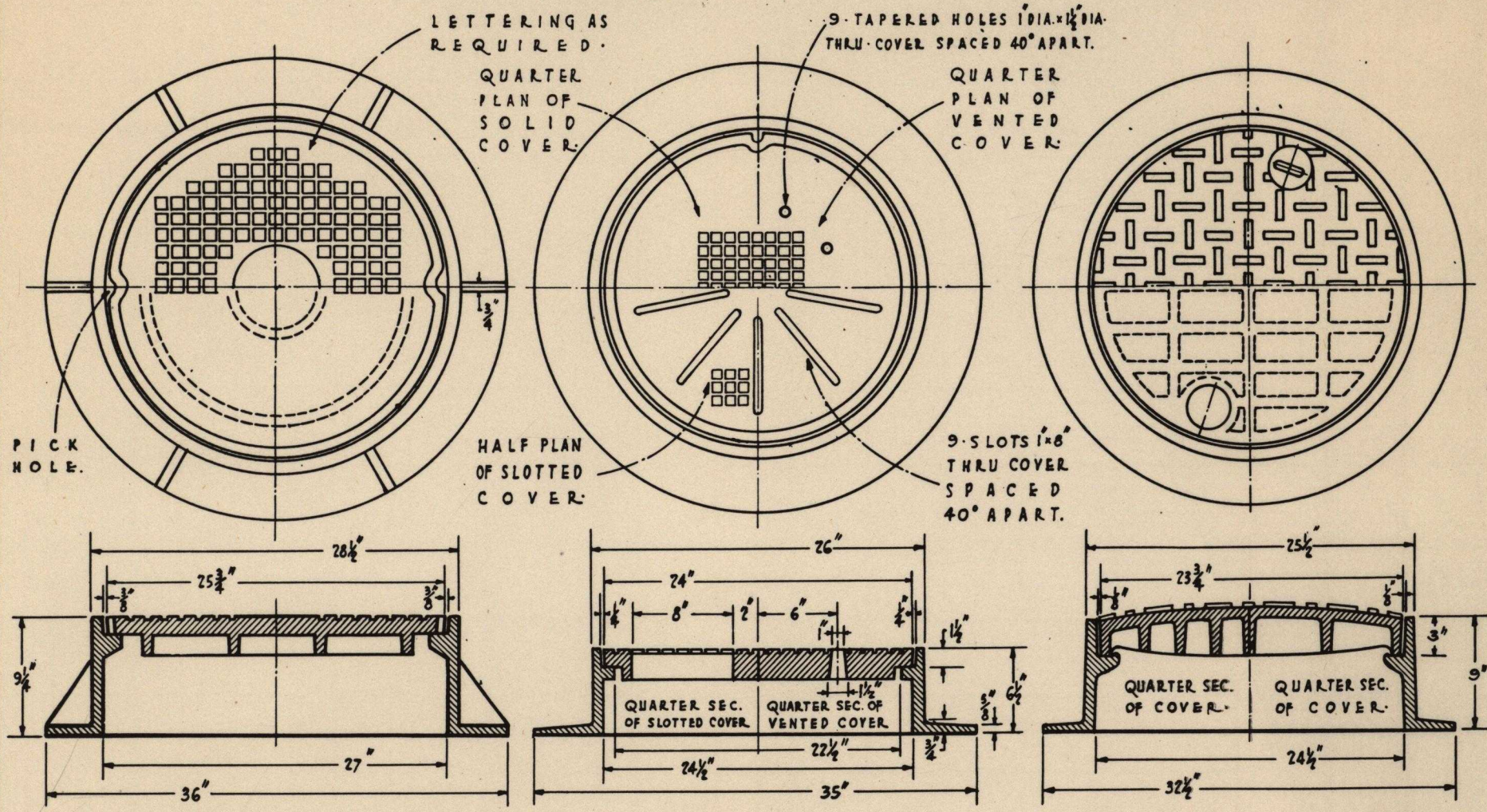


PATTERN No	A	B	C	D	E	WEIGHT APPROX.
C21	12½"	4½"	3½"	6½"	½"	30 LBS.



"ASH DUMP"

CAST IRON · HEAVY MANHOLE FRAMES & COVERS.



PATTERN Nº 135
WEIGHT 525 LBS.

PATTERN Nº 742
WEIGHT 425 LBS.

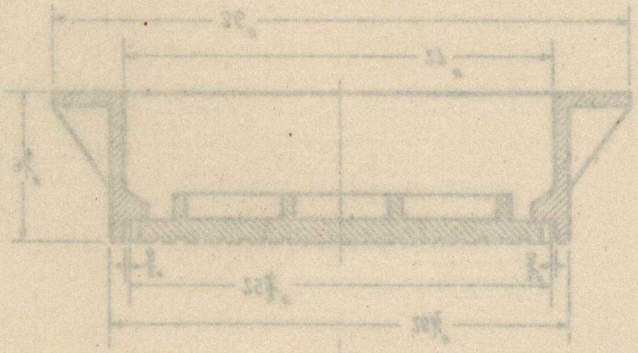
PATTERN Nº 776
WEIGHT 475 LBS.

CONTRACTORS FOUNDRY, PHILA. PA.

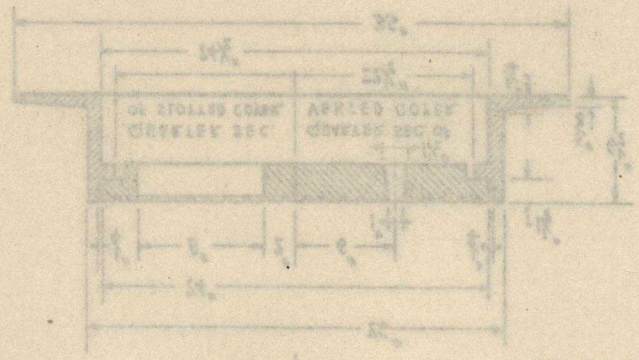
DATA SHEET Nº 111

8-1-48

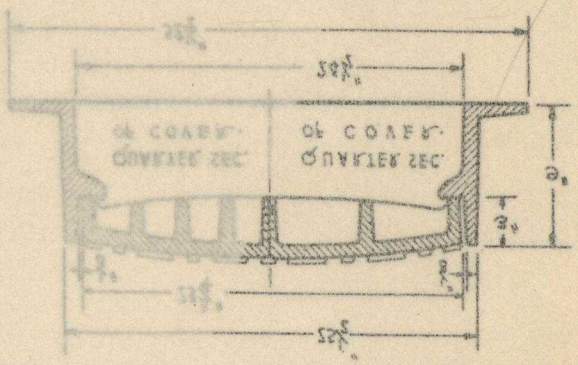
WEIGHT 252 LBS.
PATTERN No 182

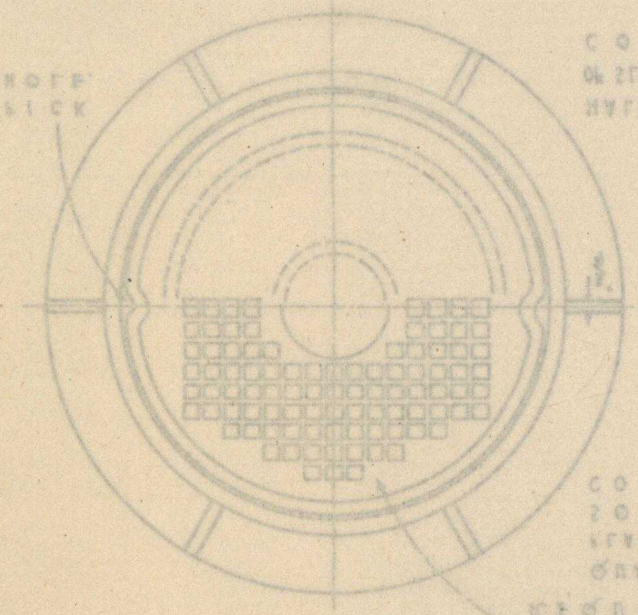


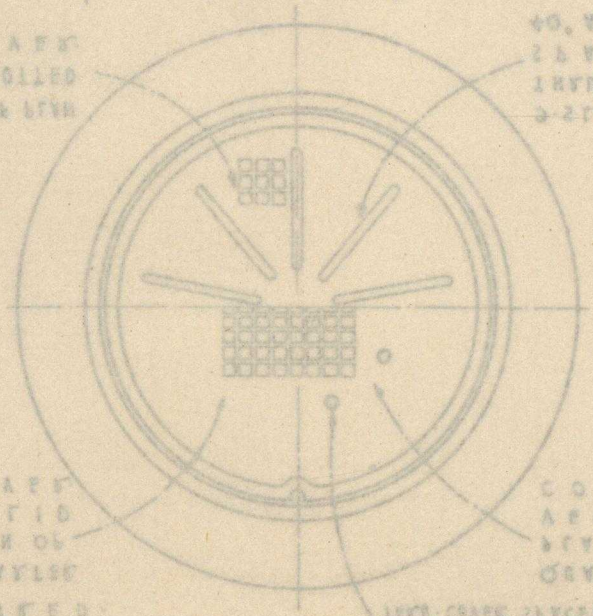
WEIGHT 452 LBS.
PATTERN No 242

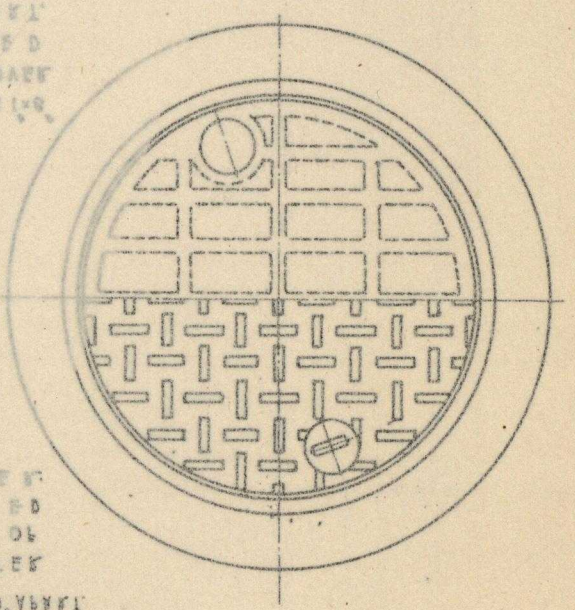


WEIGHT 425 LBS.
PATTERN No 116



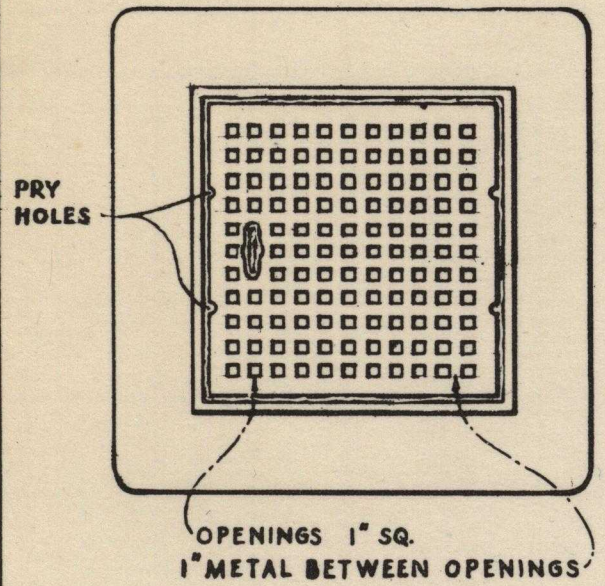


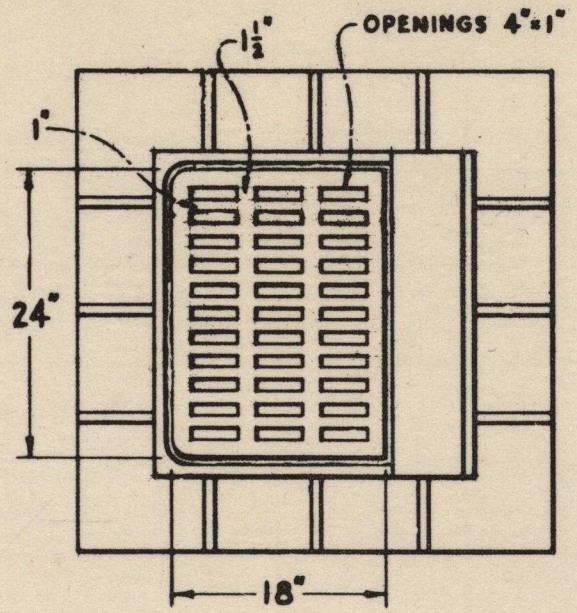


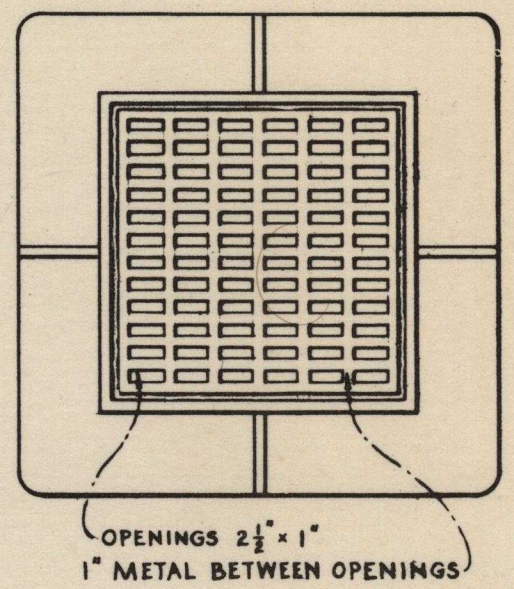


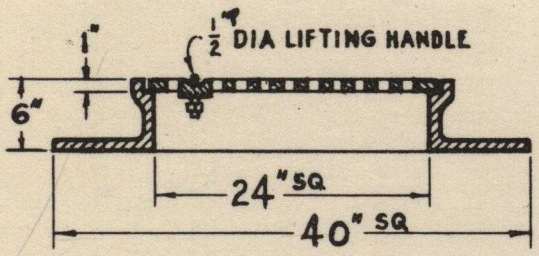
CAST IRON · HEAVY MANHOLE FRAMES & COVERS

CAST IRON CATCH BASIN FRAMES & GRATINGS

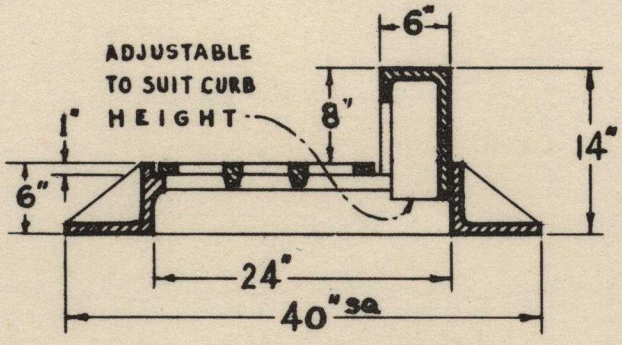




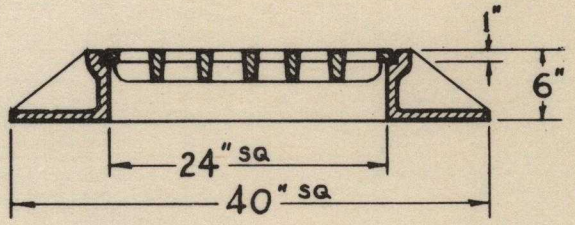




PATTERN Nº 180
WEIGHT 475 LBS.
[PUBLIC BLDGS ADM DETAIL 3A-6]



PATTERN Nº 347
WEIGHT 600 LBS.
[U.S. VETERANS CURB TYPE CATCH BASIN]



PATTERN Nº 181
WEIGHT 500 LBS.
[U.S. VETERANS CATCH BASIN]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 112

10-21-31 REVISED 8-15-44

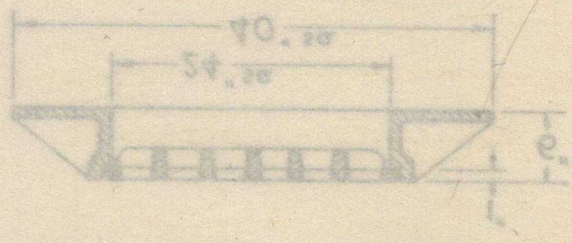
CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No 113

[U.S. VETERANS CATCH BASIN]

WEIGHT 200 LBS.

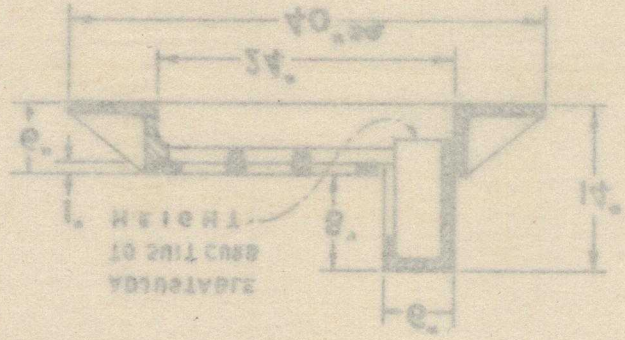
PATTERN No 181



[U.S. VETERANS CARB TYPE CATCH BASIN]

WEIGHT 600 LBS.

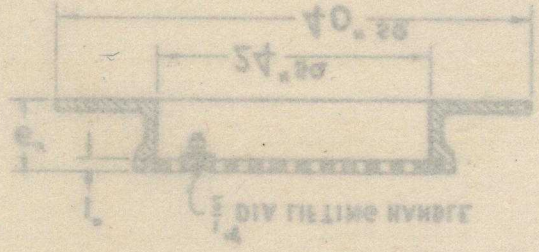
PATTERN No 347

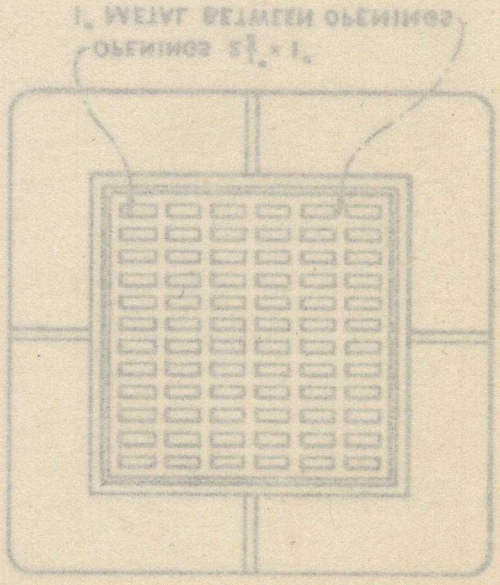


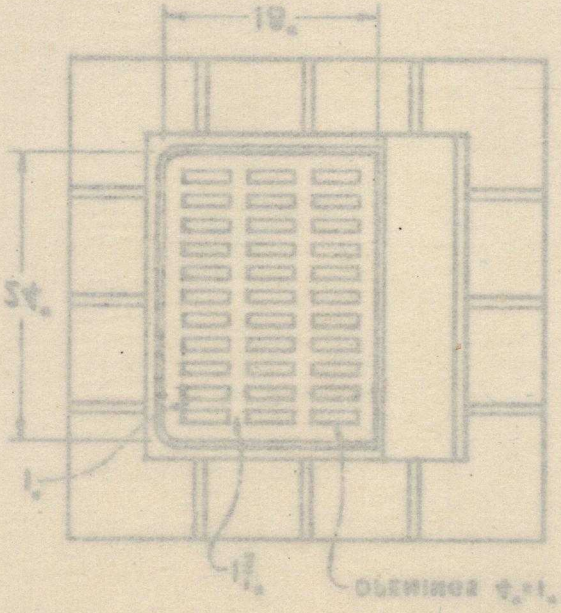
[PORTLAND BRADS ADAM DEPART 34-8]

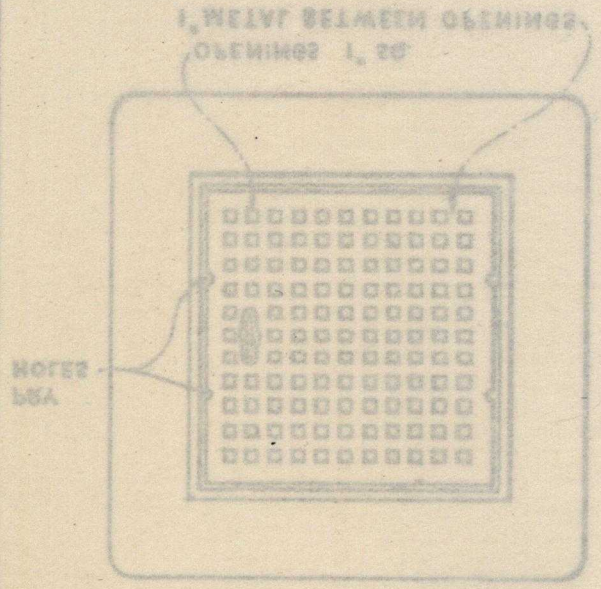
WEIGHT 475 LBS.

PATTERN No 180



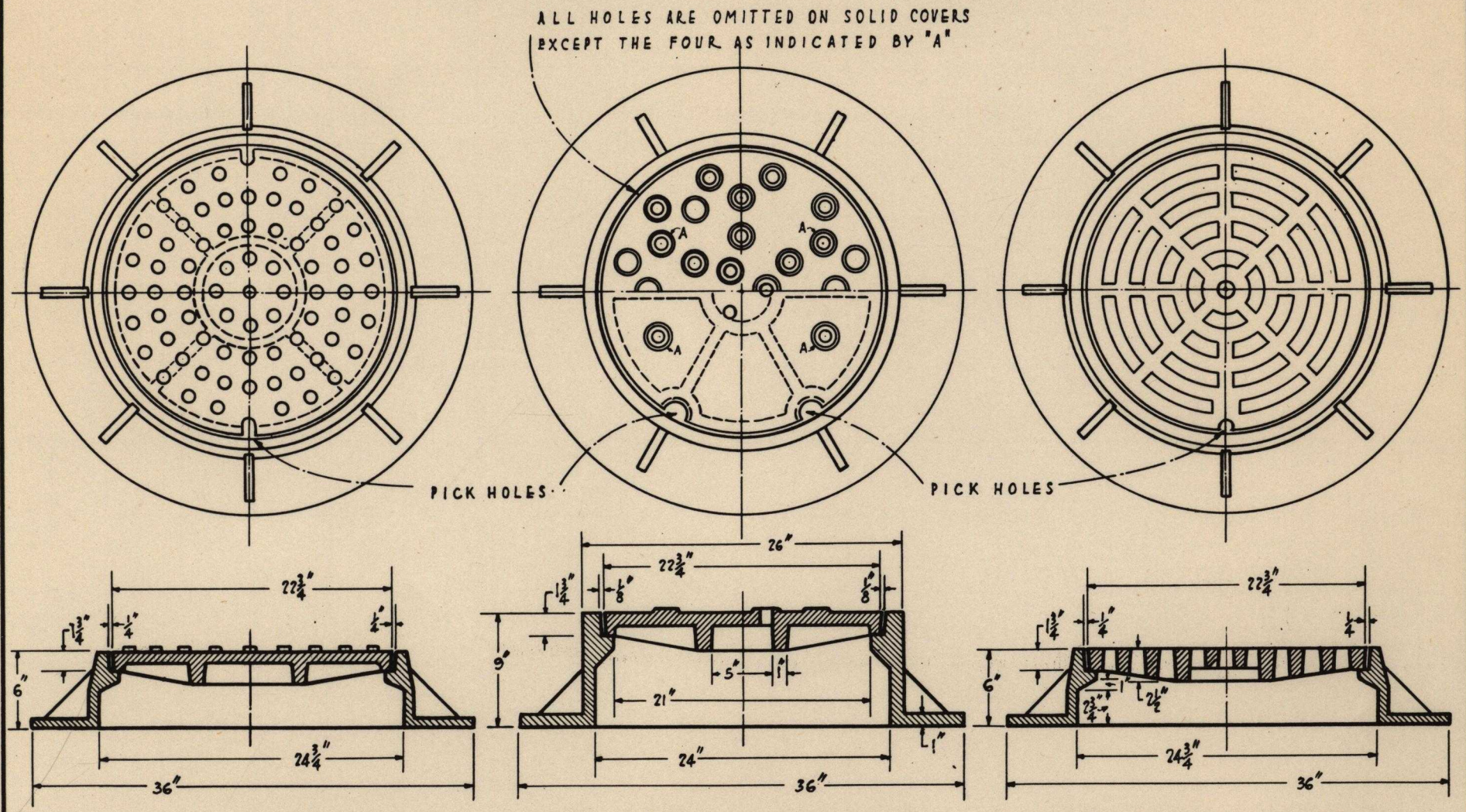






CAST IRON CATCH BASIN FRAMES & GRATINGS

CAST IRON · MANHOLE FRAMES & COVERS.



PATTERN Nº 790
WEIGHT 350 LBS.

PATTERN Nº 784
WEIGHT 550 LBS.
[CHICAGO STANDARD]

PATTERN Nº 785
WEIGHT 350 LBS.

CONTRACTORS FOUNDRY, PHILA. PA.

DATA SHEET Nº 115

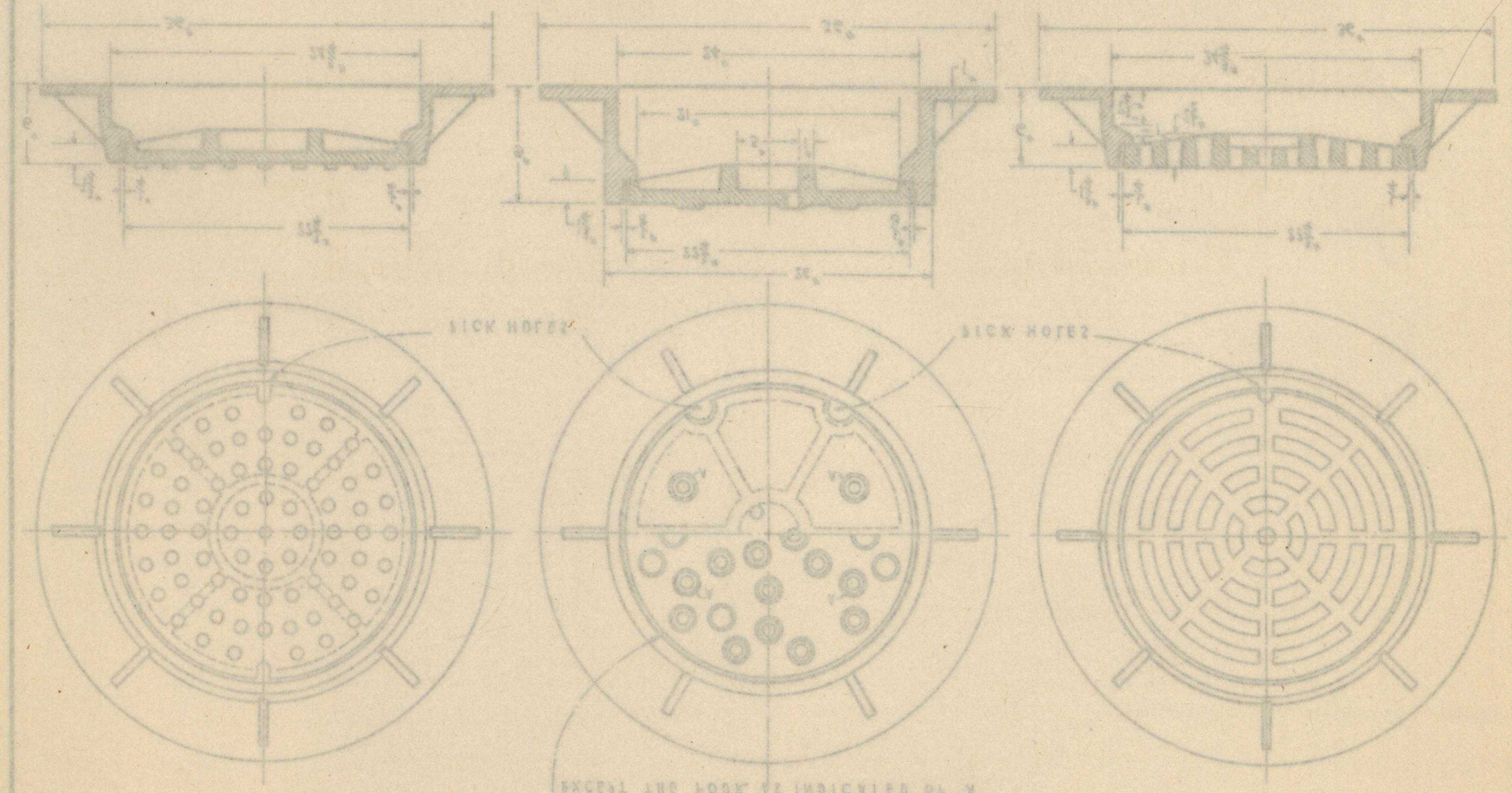
3-1-48

[CHICAGO STANDARD]

WEIGHT 350 LBS.
PATTERN No 290

WEIGHT 550 LBS.
PATTERN No 284

WEIGHT 350 LBS.
PATTERN No 285



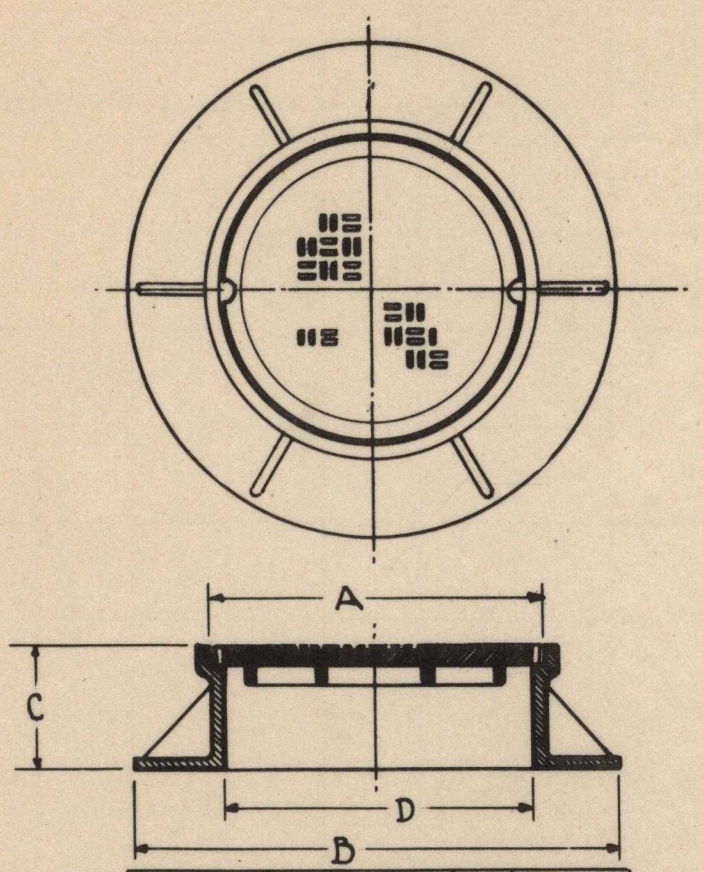
EXCEPT THE FORM AS INDICATED BY "A".
ALL HOLES ARE OMITTED ON SOLID COVERS.

CAST IRON MANHOLE FRAMES & COVERS.

CAST IRON MANHOLE COVERS & FRAMES.

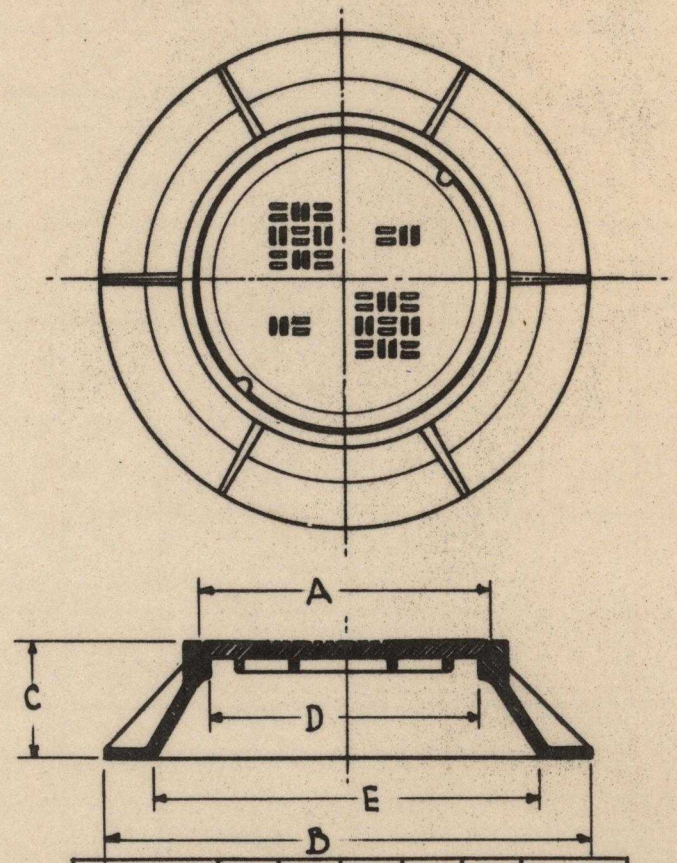
HEAVY WEIGHT

BELL TYPE



PATTERN	A	B	C	D	WEIGHT
100	22½	32½	8	20	450
101	25¾	36	8	24	500
102	32	42	8	30	750
103	38½	48	8	36	1000
104	43½	54	8	42	1300
105	49½	60	8	48	1600

FLARED TYPE



PATTERN	A	B	C	D	E	WEIGHT
58	25¾	43½	10	24	34½	550
59	28¾	46½	10	27	37½	750
60	31¾	49	10	30	40	950

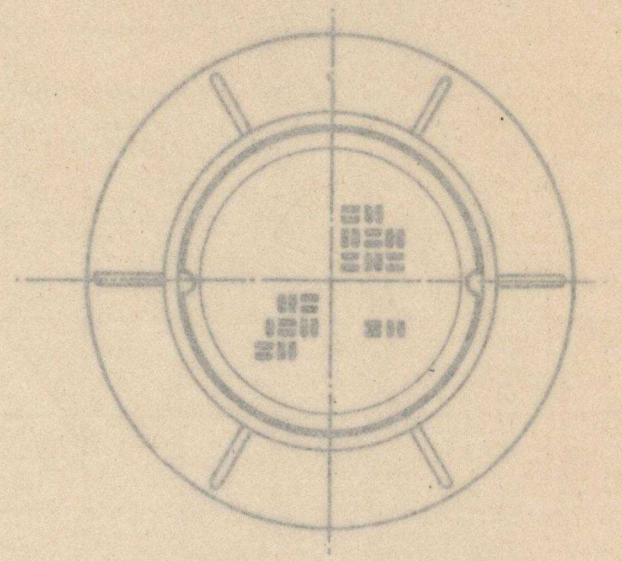
CONTRACTORS FOUNDRY INC., PHILA., PA.

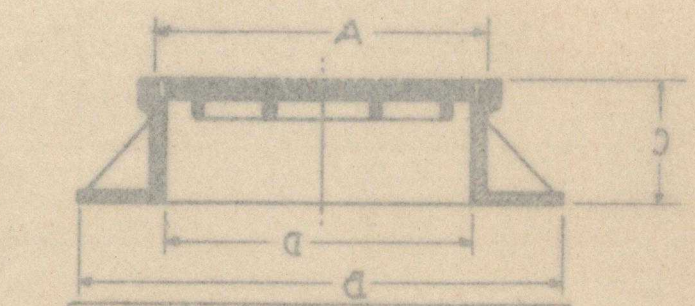
DATA SHEET Nº 116

CAST IRON MANHOLE COVERS & FRAMES.

HEAVY WEIGHT

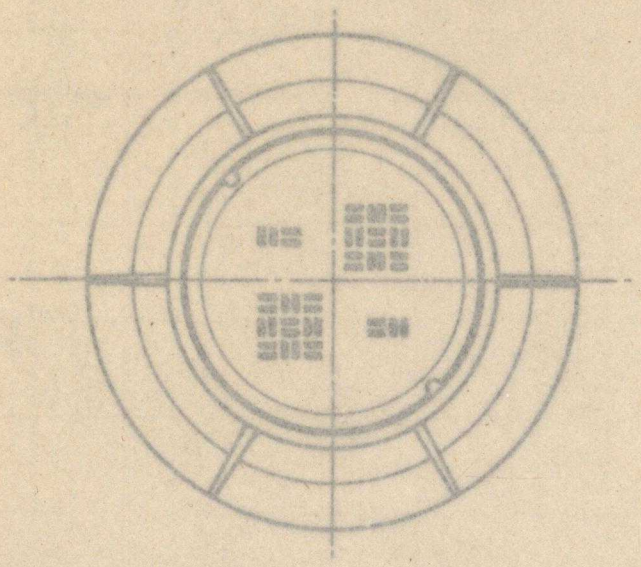
BELL TYPE

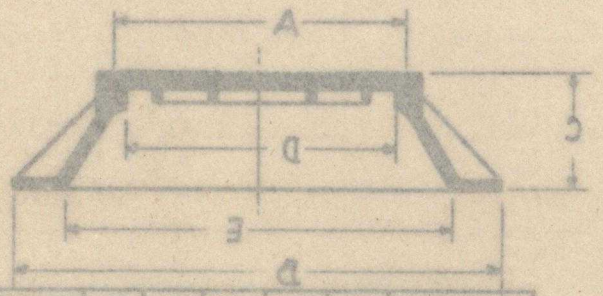




PATTERN	A	D	C	D	WEIGHT
100	22½	32½	8	20	450
101	25½	36	8	24	500
102	32	42	8	30	750
103	38½	48	8	36	1000
104	45½	54	8	42	1300
105	49½	60	8	48	1600

FLARED TYPE



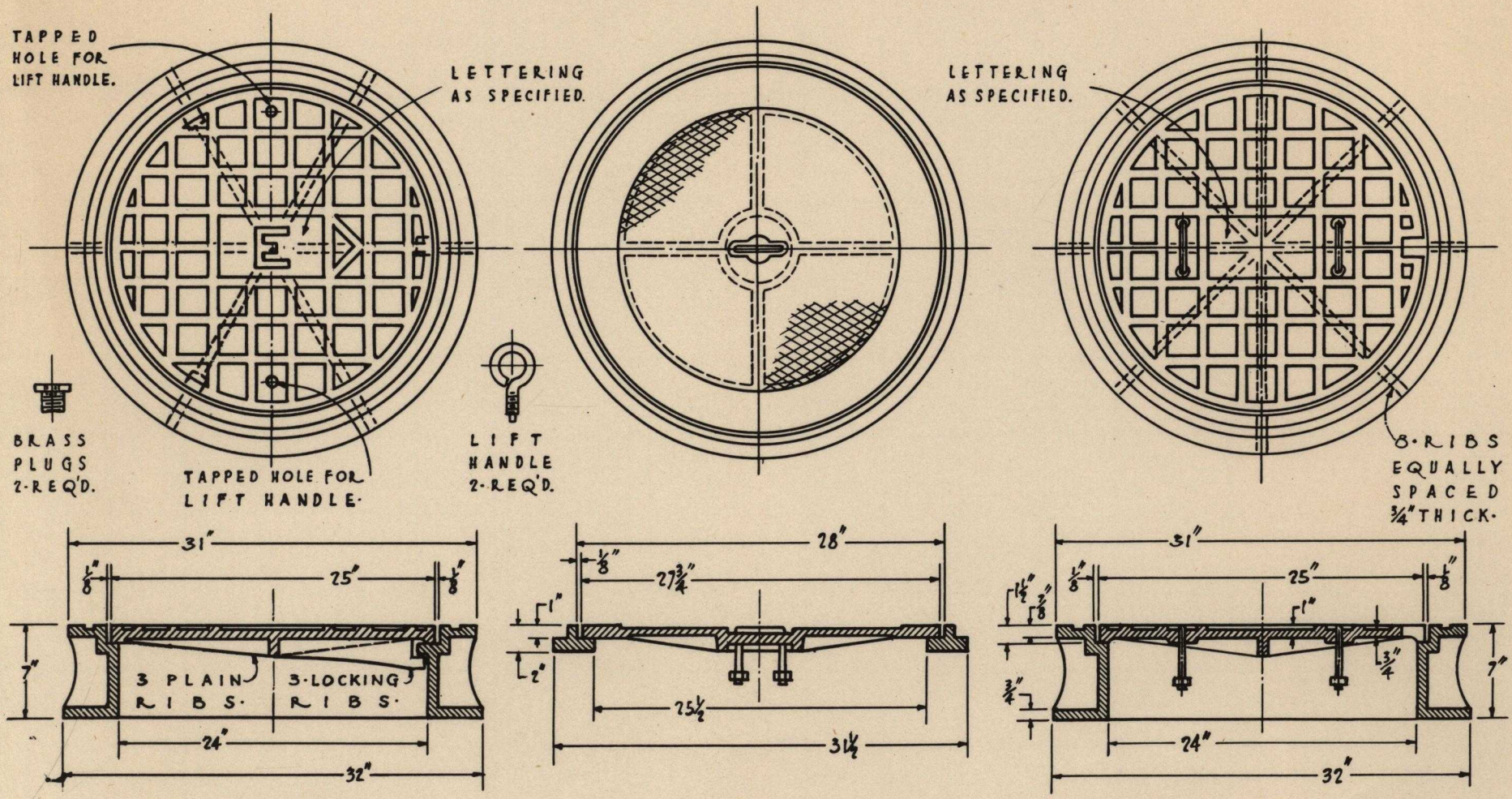


PATTERN	A	D	C	D	E	WEIGHT
58	25½	43½	10	24	34½	550
59	28½	46½	10	27	37½	750
60	34½	49	10	30	40	950

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 116

CAST IRON · MANHOLE FRAMES & COVERS.



PATTERN Nº 334
WEIGHT 375 LBS.
[PHILA·NAVY YARD STANDARD
PUBLIC WORKS DRG.·5400]

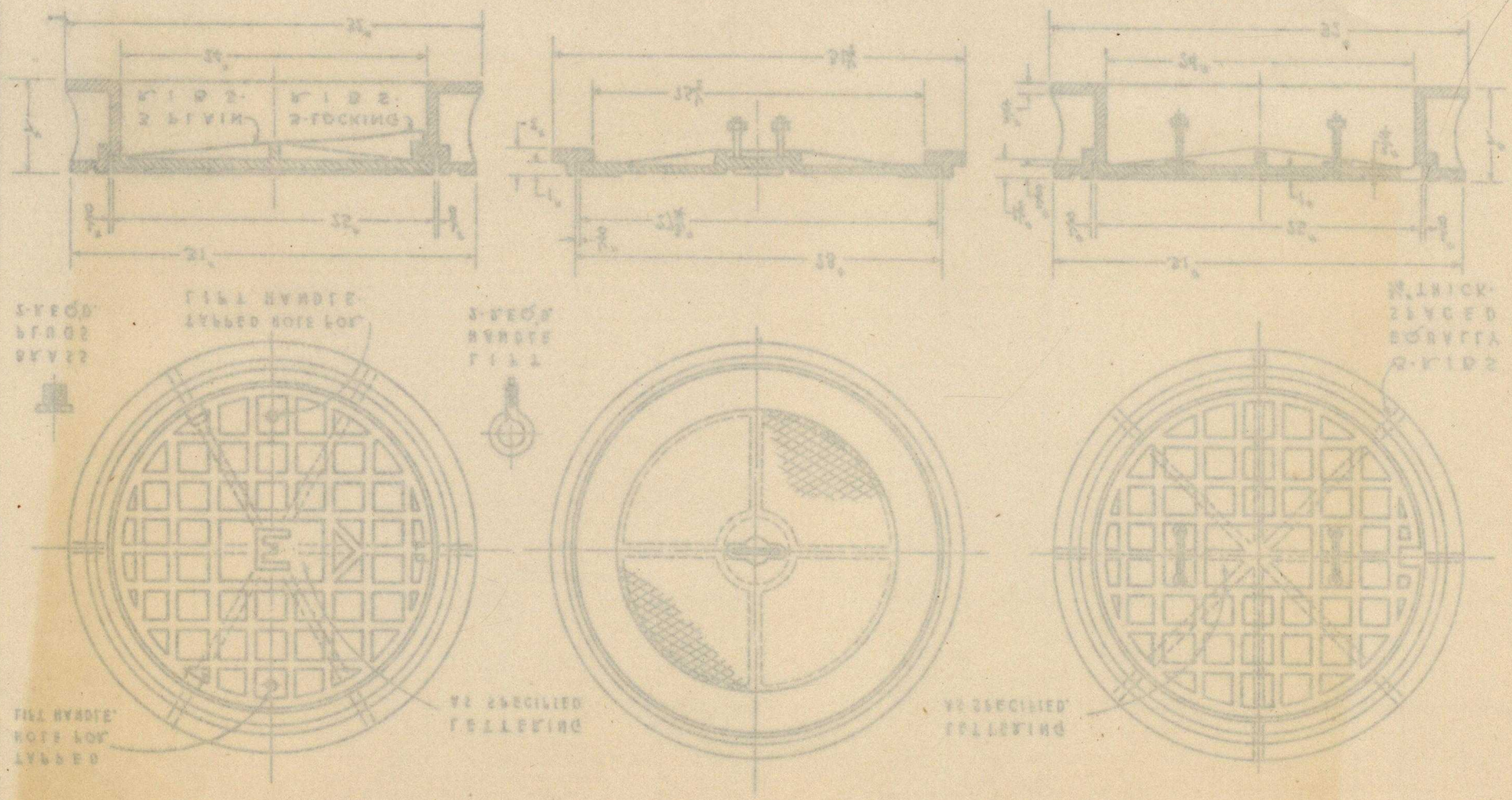
PATTERN Nº 114
WEIGHT 245 LBS.
[U.S. ARMY & NAVY
SPECIFICATIONS]

PATTERN Nº 296
WEIGHT 375 LBS.
[PHILA·NAVY YARD STANDARD
PUBLIC WORKS DRG.·5400]

CONTRACTORS FOUNDRY, PHILA. PA.

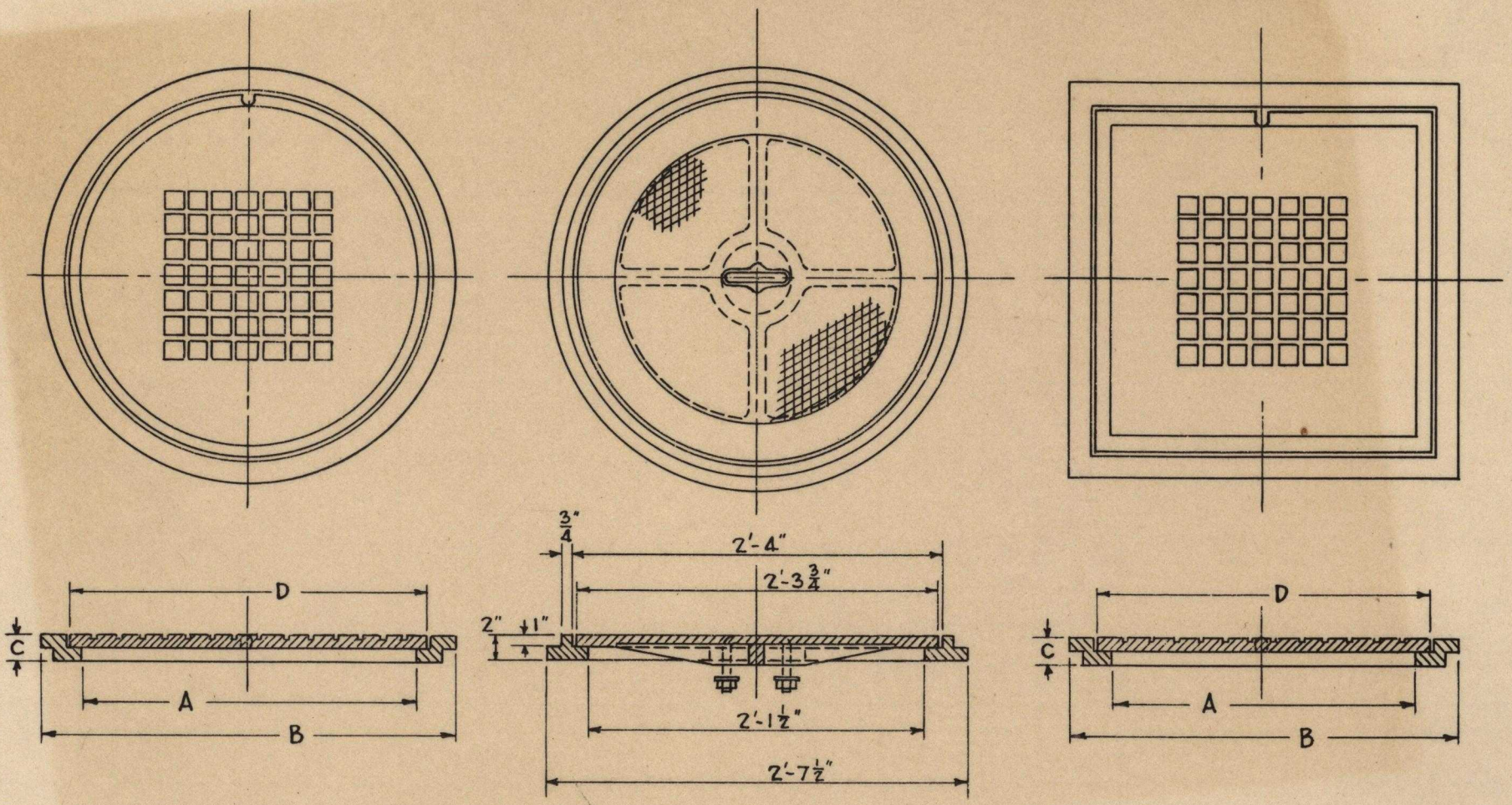
DATA SHEET Nº 116

3-1-48



CAST IRON - MANHOLE FRAMES & COVERS

· CAST IRON · SHALLOW FRAMES · WITH SOLID COVERS ·



ROUND					
PATTERN Nº	A	B	C	D	WEIGHT
375	12	16	1 7/8	13	50
376	18	22 1/4	2	19	75
377	24	28	2	25	125
378	30	34	2	31	275
379	36	41	2	37 3/4	450

PATTERN Nº 114
WEIGHT 245 LBS.

[ARMY & NAVY SPECIFICATIONS
WEIGHT OF FRAME 72 LBS.
WEIGHT OF COVER 173 LBS.]

SQUARE					
PATTERN Nº	A	B	C	D	WEIGHT
380	12	18	1 1/2	13 1/4	75
381	18	24	1 3/4	19 1/4	125
382	24	30	1 3/4	25 1/4	250
383	30	36	2	31 1/4	350
384	36	42	2	37 1/4	475

CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No 117

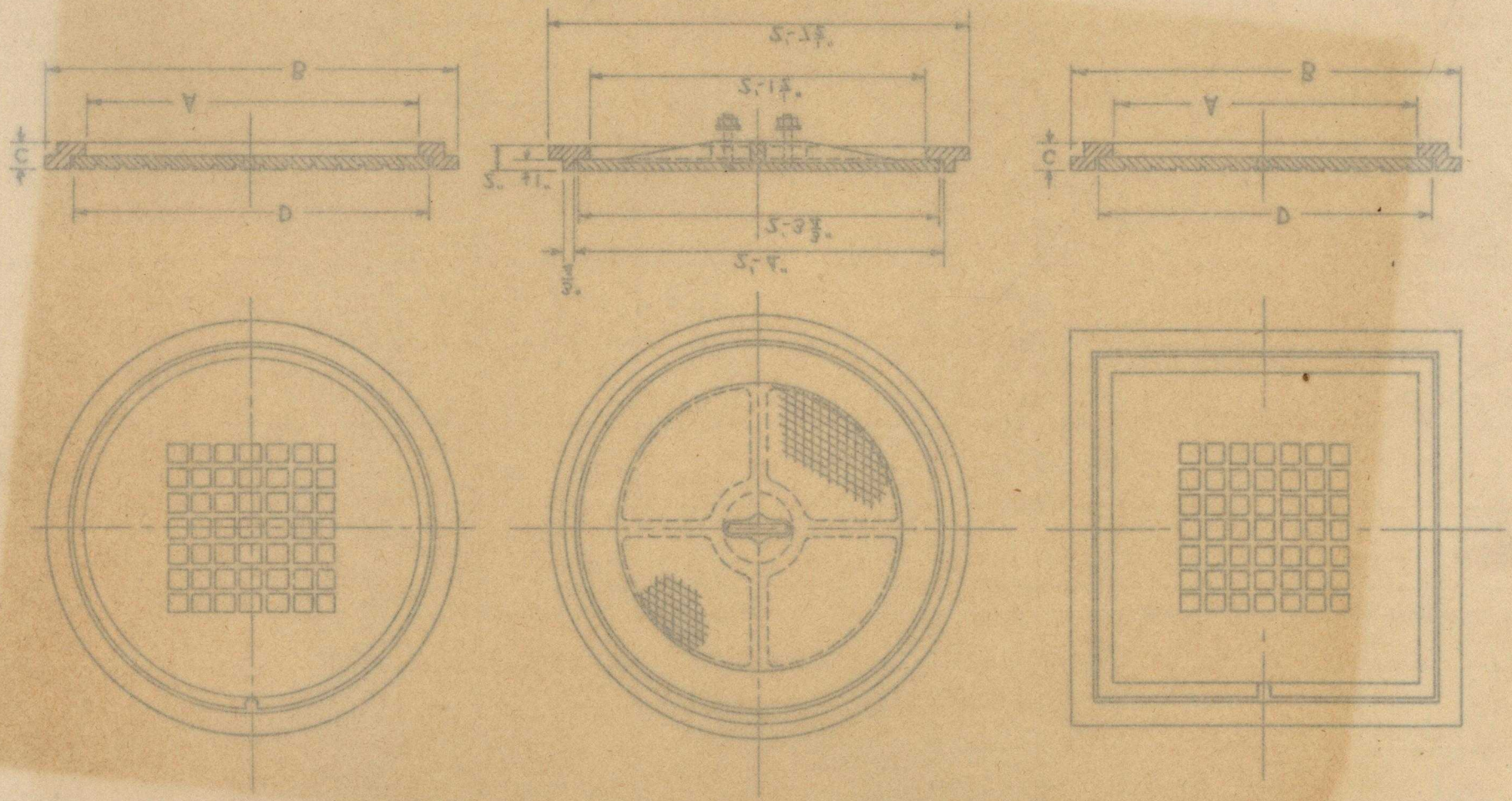
WEIGHT CAS LBS.

PATTERN No 114

[ARMY & NAVY SPECIFICATIONS
WEIGHT OF FRAME 75 LBS.
WEIGHT OF COVER 175 LBS.]

ROUND					
PATTERN No	A	B	C	D	WEIGHT
375	15	18	$1\frac{1}{2}$	13	20
376	18	$22\frac{1}{2}$	5	16	25
377	24	28	5	22	125
378	30	34	5	31	225
379	36	41	5	$37\frac{1}{2}$	450

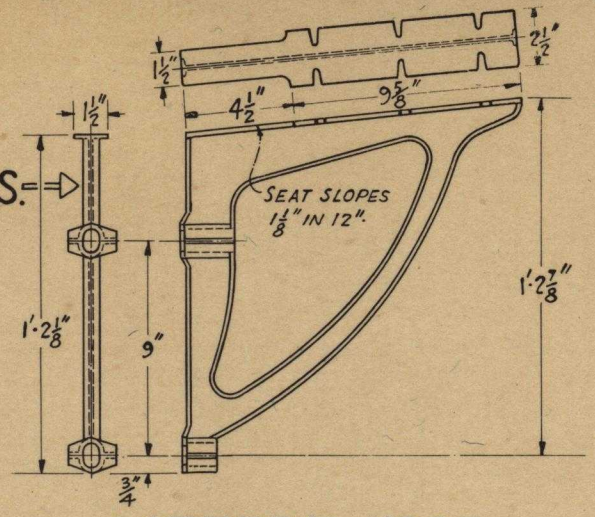
SQUARE					
PATTERN No	A	B	C	D	WEIGHT
380	15	18	$1\frac{1}{2}$	$13\frac{1}{2}$	25
381	18	24	$1\frac{1}{2}$	$19\frac{1}{2}$	125
382	24	30	$1\frac{1}{2}$	$25\frac{1}{2}$	250
383	30	36	5	$31\frac{1}{2}$	350
384	36	45	5	$37\frac{1}{2}$	475



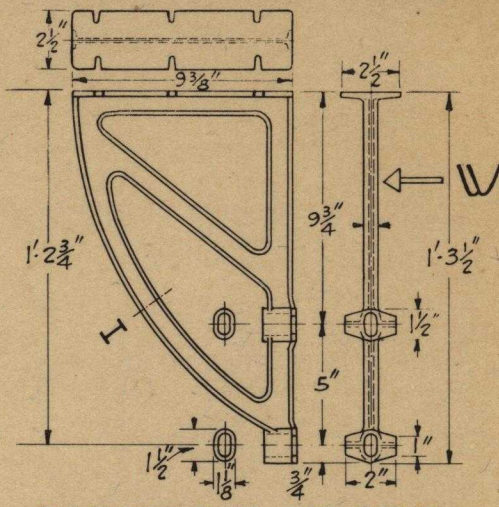
· CAST IRON · SHALLOW FRAMES · WITH SOLID COVERS ·

·CAST IRON·BENCH LEGS & SEAT BRACKETS·

WEIGHT· 9 ·LBS.

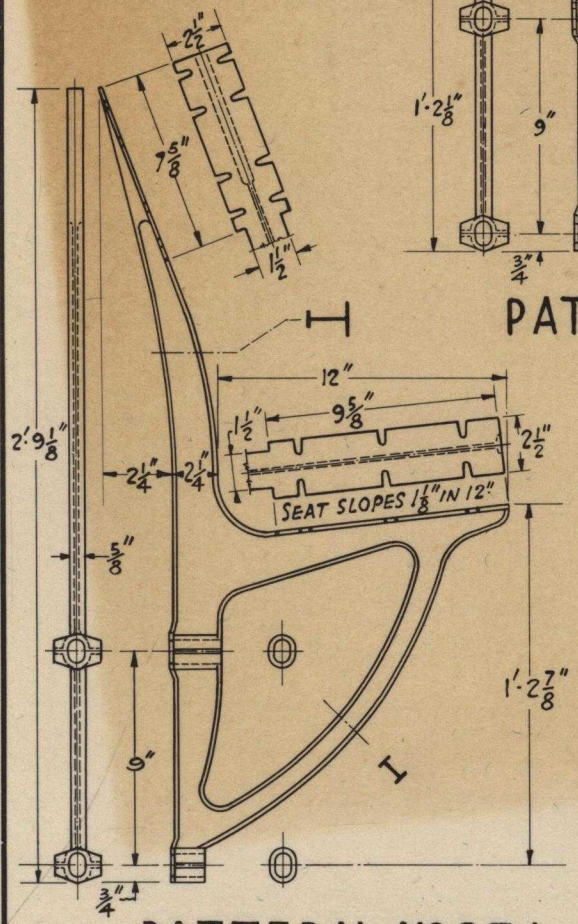


PATTERN Nº 853

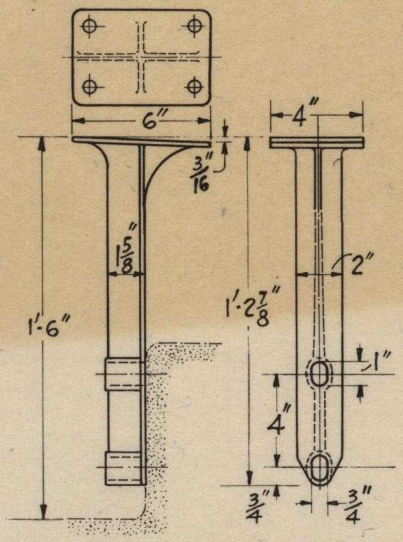


WEIGHT· 8 ·LBS.

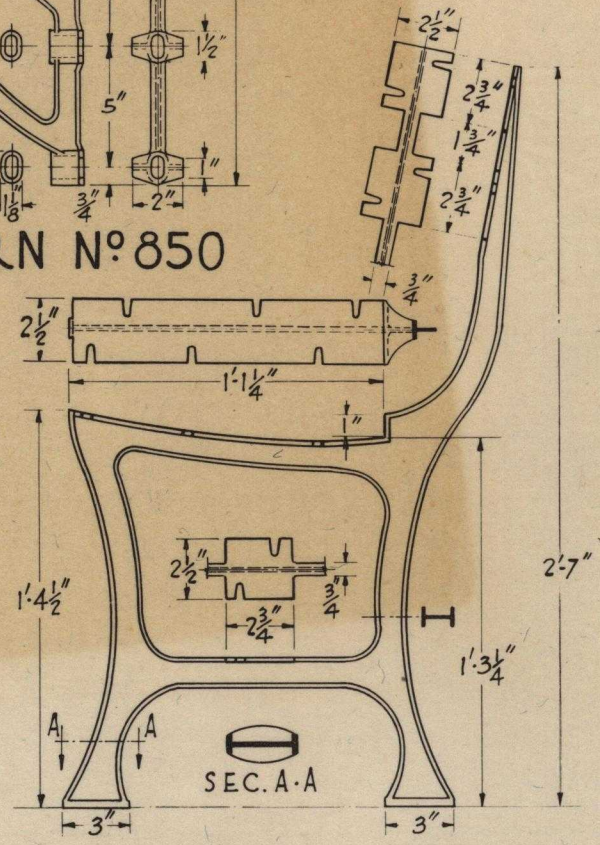
PATTERN Nº 850



PATTERN Nº 854
WEIGHT· 13 ·LBS.

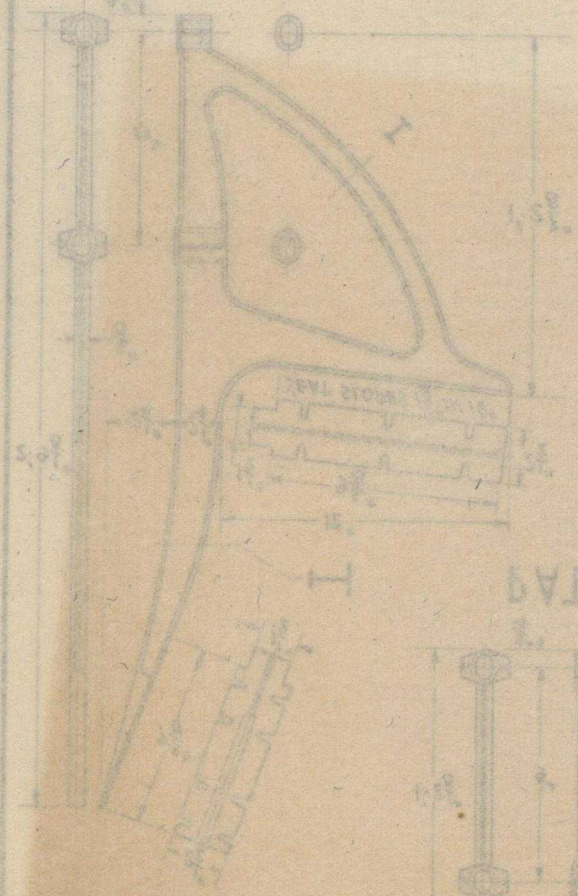


PATTERN Nº 858
WEIGHT· 7 ·LBS.

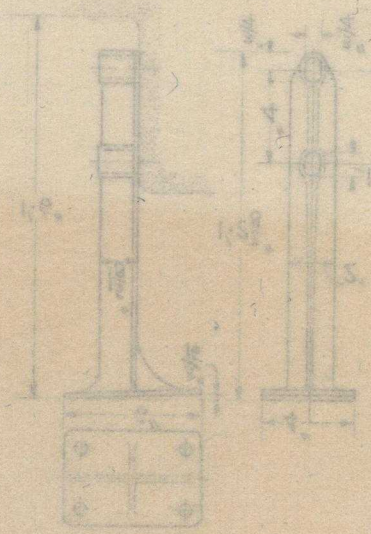


PATTERN Nº 856
WEIGHT· 17 ·LBS.

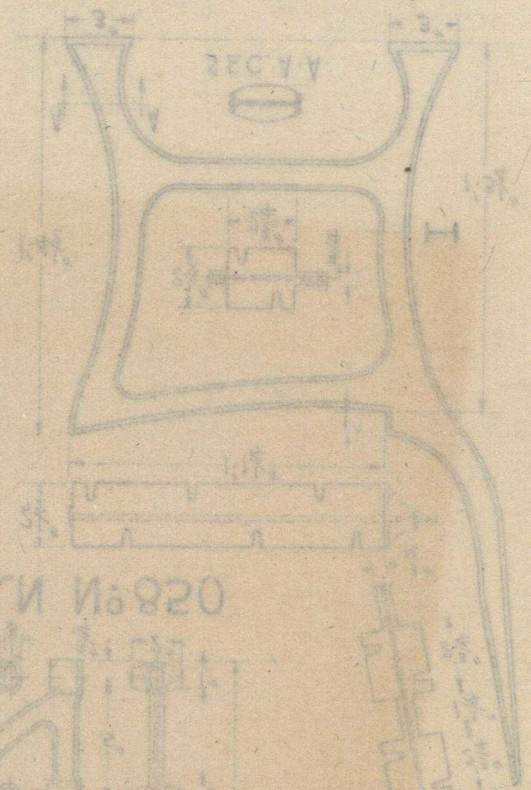
WEIGHT 13 LBS
PATTERN No 824



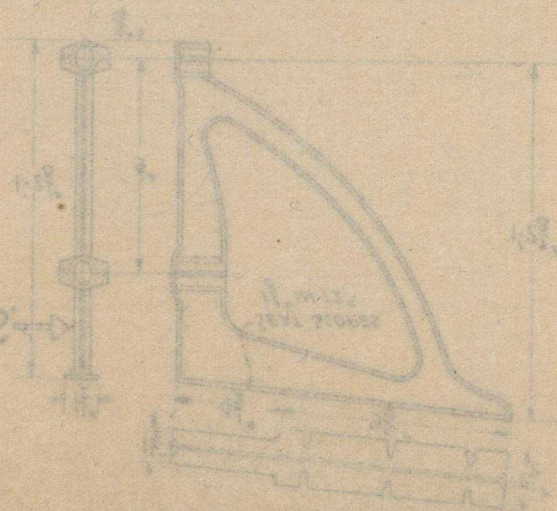
WEIGHT 7 LBS
PATTERN No 828



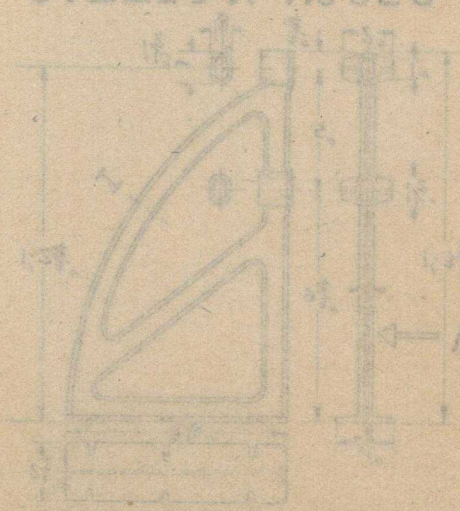
WEIGHT 17 LBS
PATTERN No 826



WEIGHT 9 LBS
PATTERN No 823

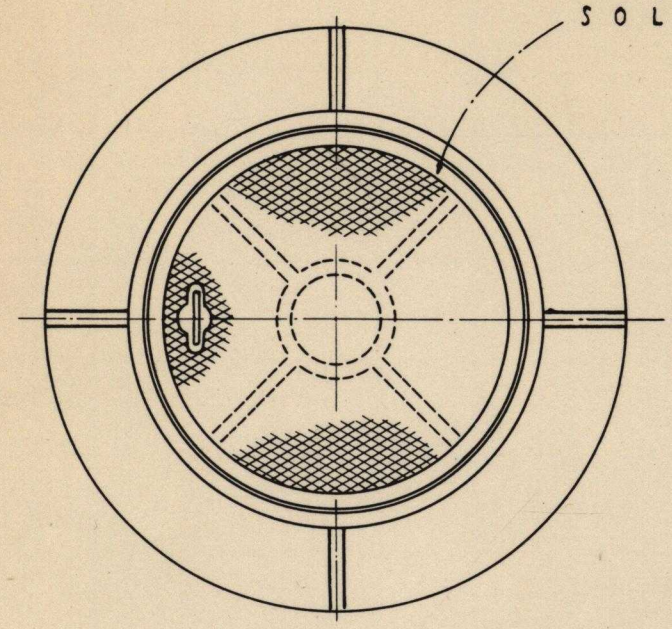


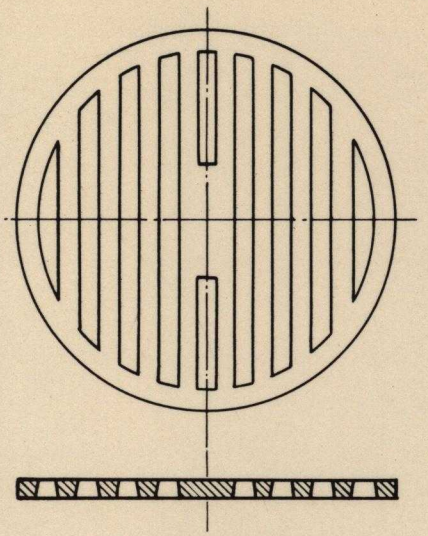
WEIGHT 8 LBS
PATTERN No 820



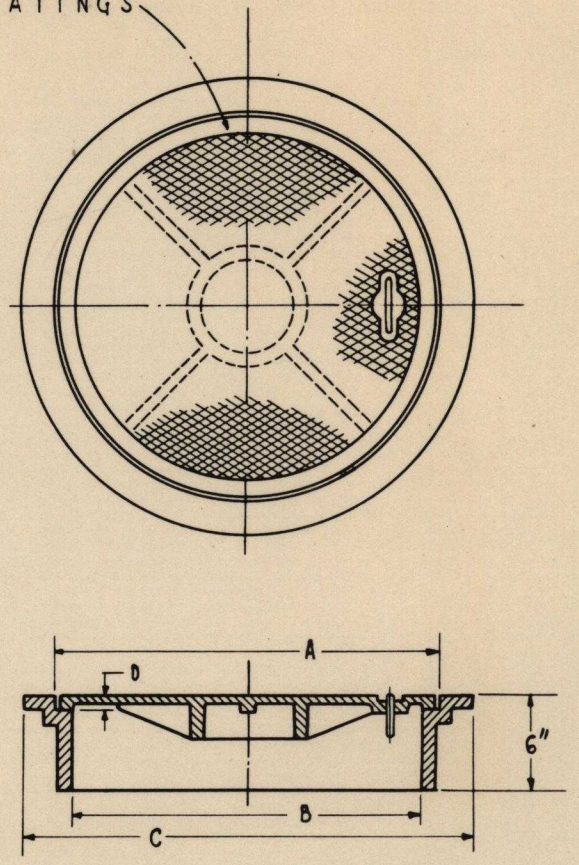
CAST IRON BENCH LEGS & SEAT BRACKETS

CAST IRON · MEDIUM WEIGHT FRAMES & COVERS OR GRATINGS.





GRATING FURNISHED WHEN SPECIFIED.



PATT. Nº	A	B	C	D	WEIGHT	
371	18"	16"	30"	1"	225	
372	24"	22"	36"	1"	275	
373	30"	28"	42"	1¼"	350	•
374	36"	34"	48"	1¼"	450	•
406	42"	40"	54"	1¼"	625	•

[• COVERS HAVE TWO LIFT HANDLES]

	PATT. Nº	A	B	C	D	WEIGHT
	444	20"	18"	24"	1"	150
	385	24"	22"	28"	1"	200
	386	26"	24"	30"	1"	250
•	387	32"	30"	36"	1¼"	325
•	388	38"	36"	42"	1¼"	425
•	445	44"	42"	48"	1¼"	600

CONTRACTORS FOUNDRY, PHILA., PA.

DATA SHEET Nº 119

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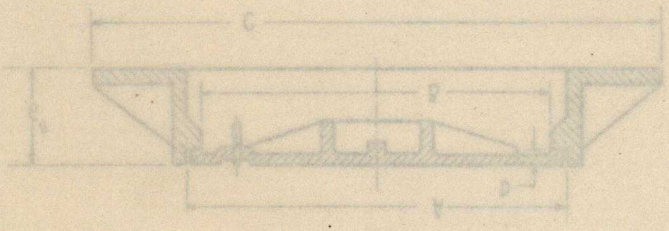
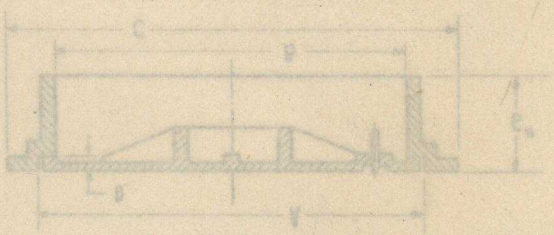
RATING	A	B	C	D	WEIGHT
400	45	40	24	1 1/16	255
450	36	34	18	1 1/16	314
500	30	28	15	1 1/16	373
575	24	22	12	1	512
600	22	20	11	1	552
750	18	16	10	1	771

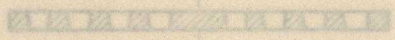


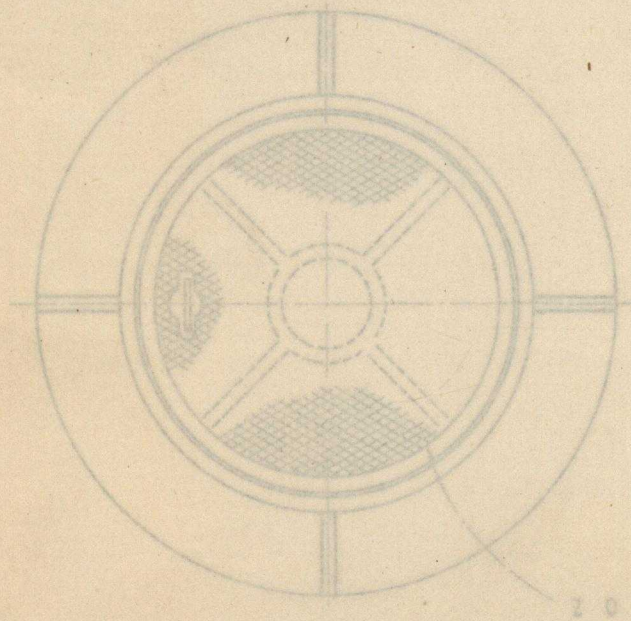
[TWO FLAT HANDLES
* COVERS HAVE]

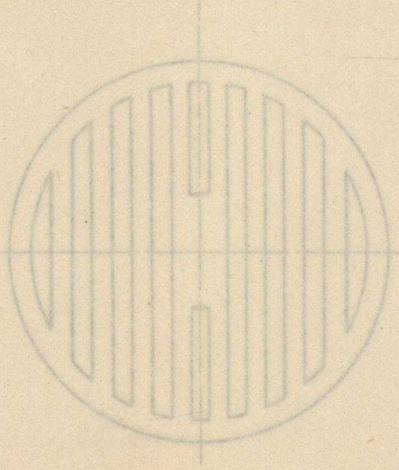
RATING	A	B	C	D	WEIGHT
400	45	40	24	1 1/16	255
450	36	34	18	1 1/16	314
500	30	28	15	1 1/16	373
575	24	22	12	1	512
600	22	20	11	1	552
750	18	16	10	1	771

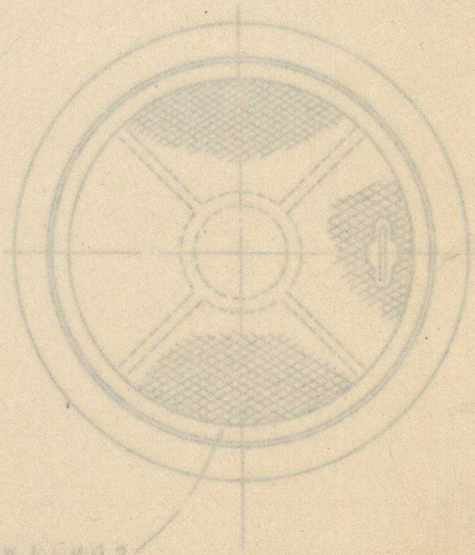


WHEN SPECIFIED
GRATING FURNISHED





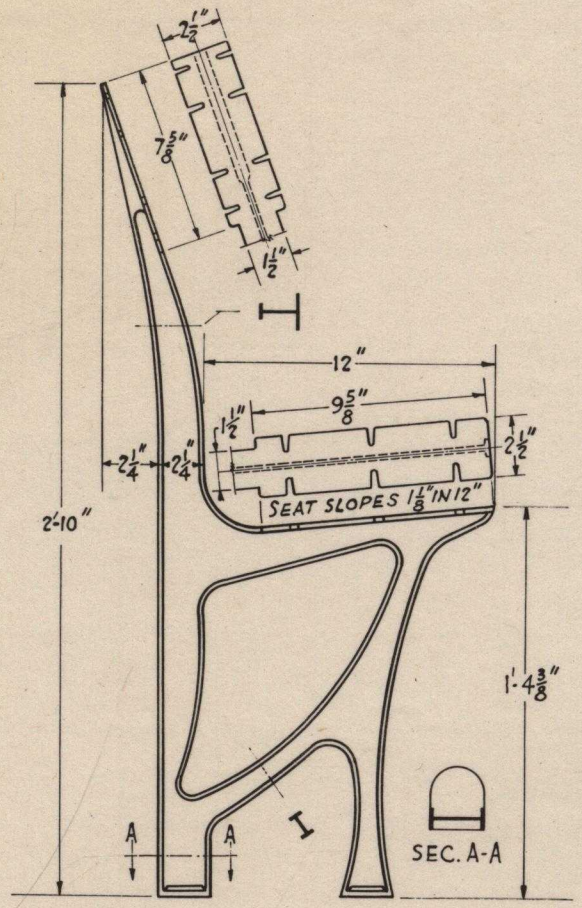




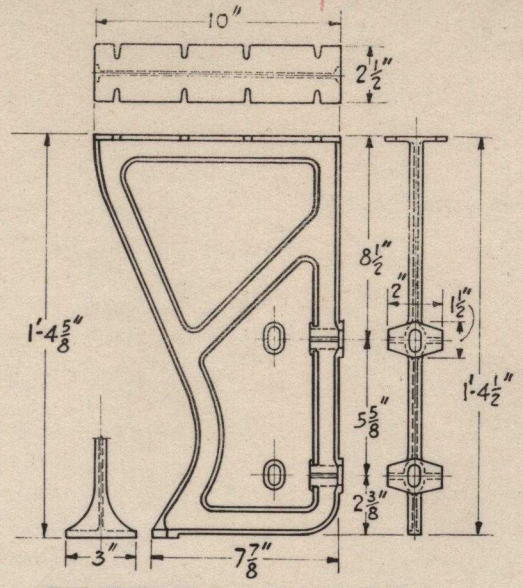
SOLID COVERS OR GRATINGS

CAST IRON-MEDIUM WEIGHT FRAMES & COVERS OR GRATINGS

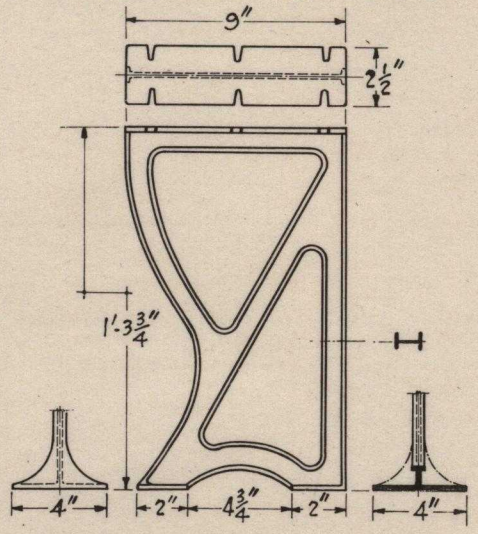
·CAST IRON·BENCH LEGS & SEAT BRACKETS·



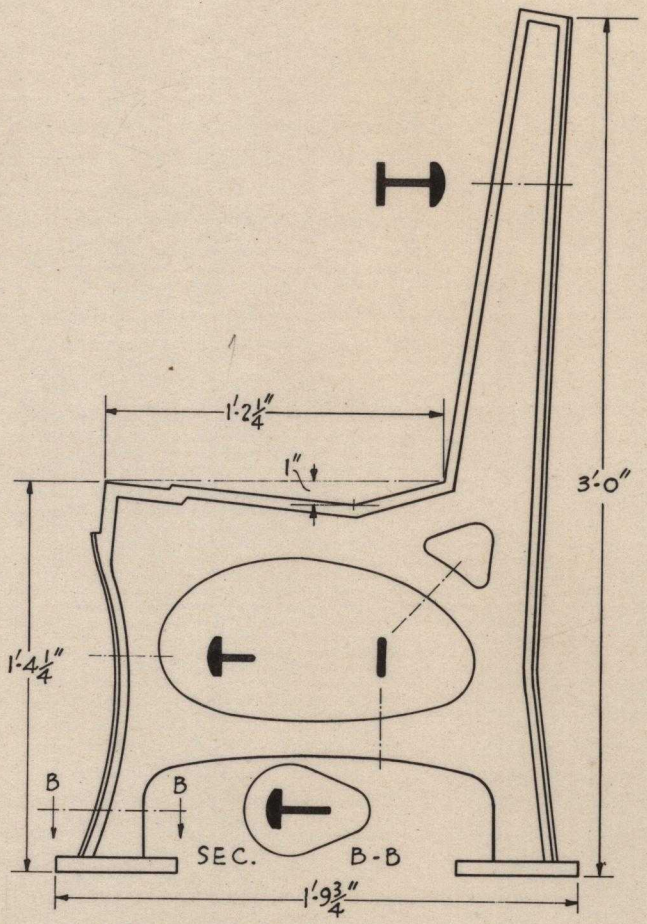
PATTERN Nº 855
WEIGHT· 15 ·LBS.



PATTERN Nº 852
WEIGHT· 8 ·LBS.



PATTERN Nº 851
WEIGHT· 8 ·LBS.

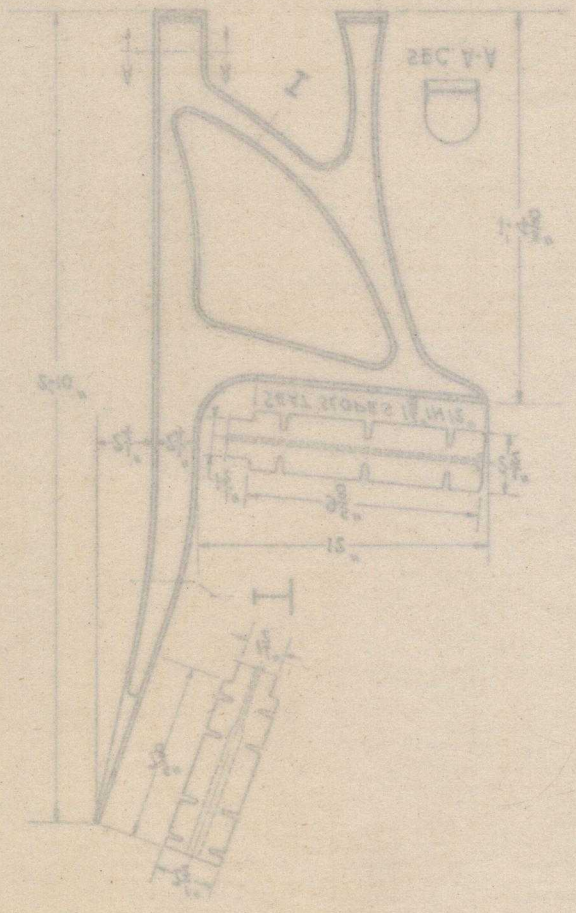


PATTERN Nº 857
WEIGHT· 50 ·LBS.

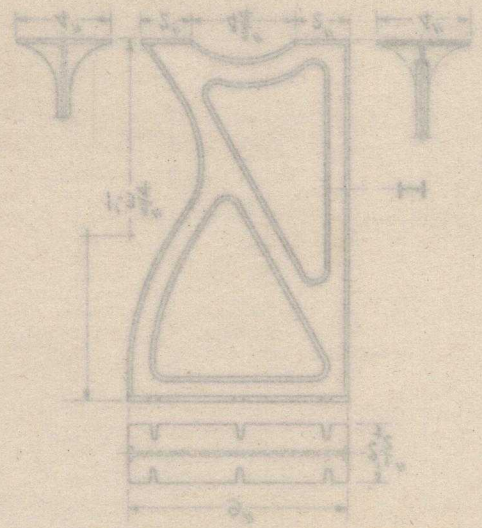
CONTRACTORS FOUNDRY INC., PHILA, PA.

DATA SHEET Nº 120

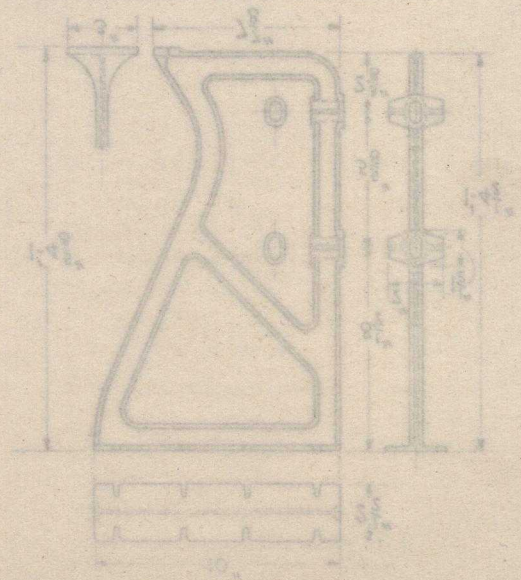
WEIGHT 12 LBS
PATTERN No 822



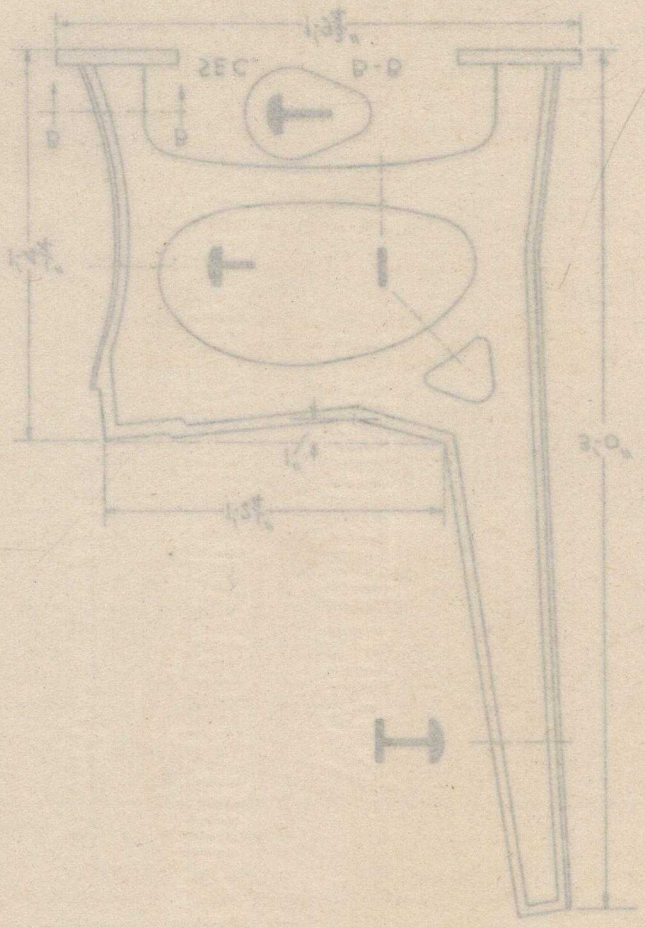
WEIGHT 8 LBS
PATTERN No 821



WEIGHT 8 LBS
PATTERN No 825

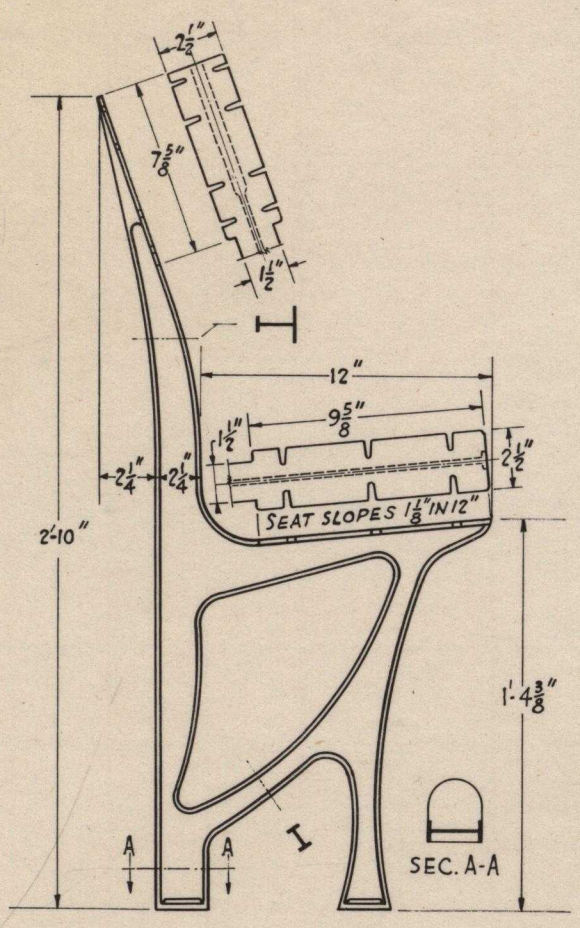


WEIGHT 20 LBS
PATTERN No 827

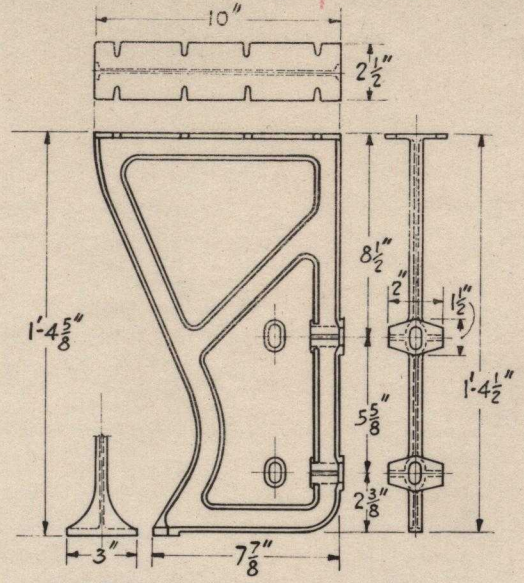


CAST IRON BENCH LEGS & SEAT BRACKETS

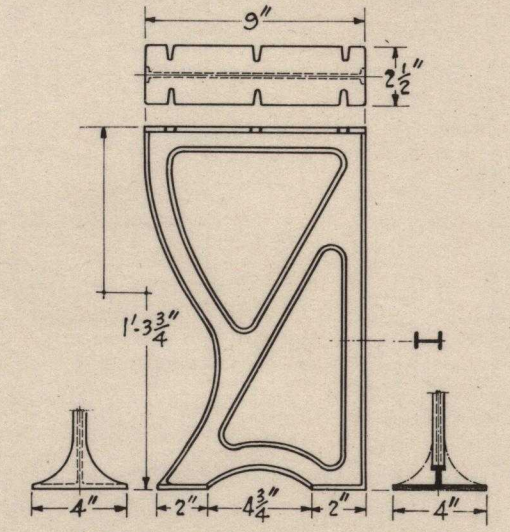
·CAST IRON·BENCH LEGS & SEAT BRACKETS·



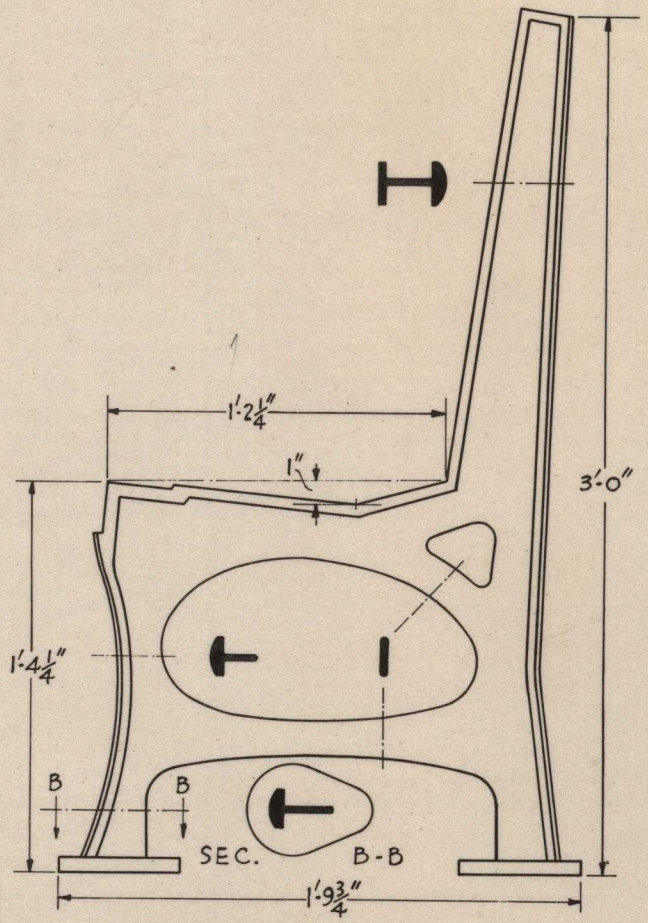
PATTERN Nº 855
WEIGHT· 15 ·LBS.



PATTERN Nº 852
WEIGHT· 8 ·LBS.



PATTERN Nº 851
WEIGHT· 8 ·LBS.

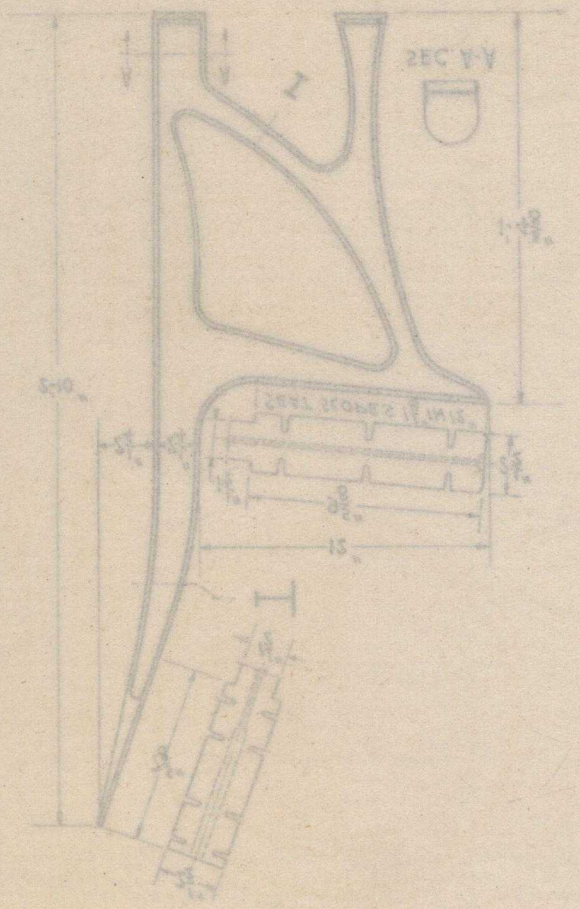


PATTERN Nº 857
WEIGHT· 50 ·LBS.

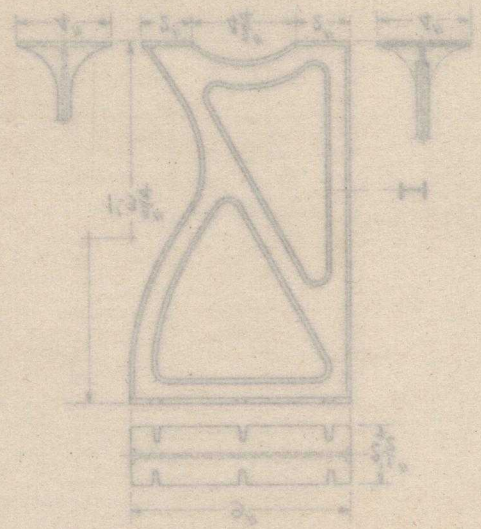
CONTRACTORS FOUNDRY INC., PHILA, PA.

DATA SHEET Nº 120

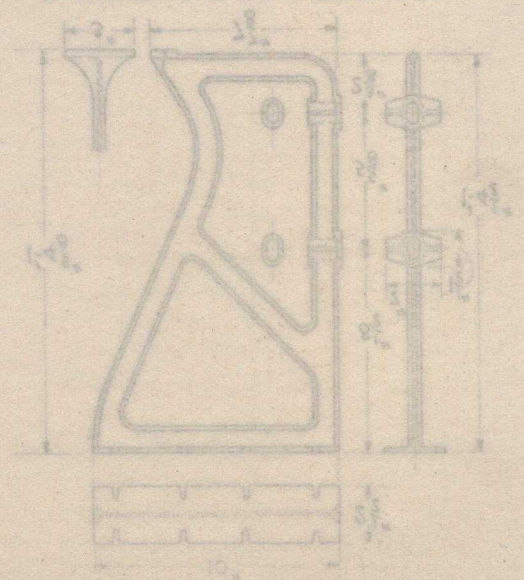
WEIGHT 12 LBS
PATTERN No 822



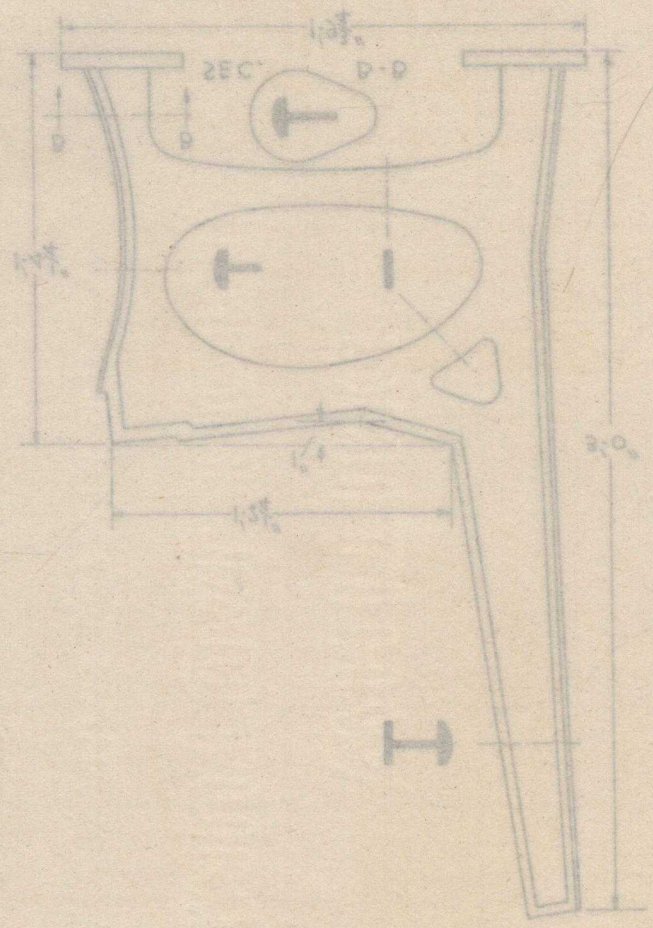
WEIGHT 8 LBS
PATTERN No 821



WEIGHT 8 LBS
PATTERN No 823



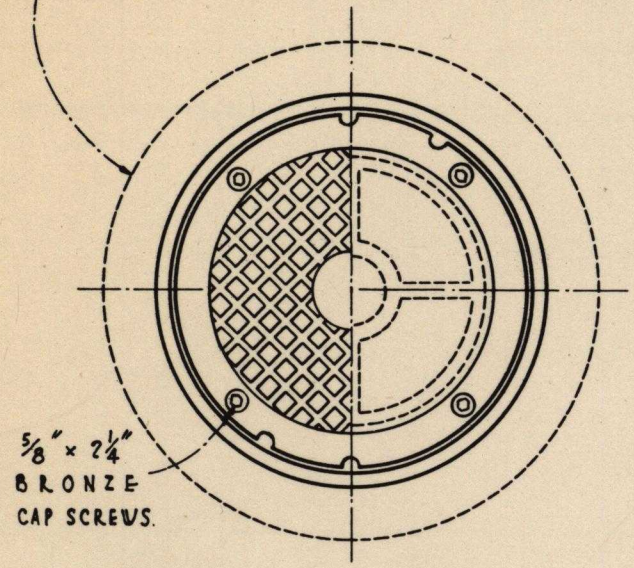
WEIGHT 20 LBS
PATTERN No 827

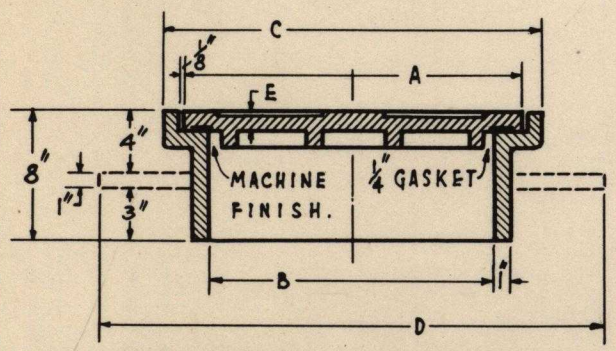


CAST IRON BENCH LEGS & SEAT BRACKETS

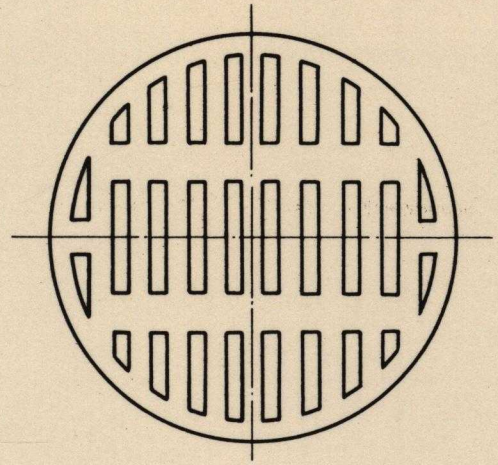
CAST IRON · MANHOLE FRAMES & COVERS.

FURNISHED WITH OR WITHOUT CENTER FLANGE.



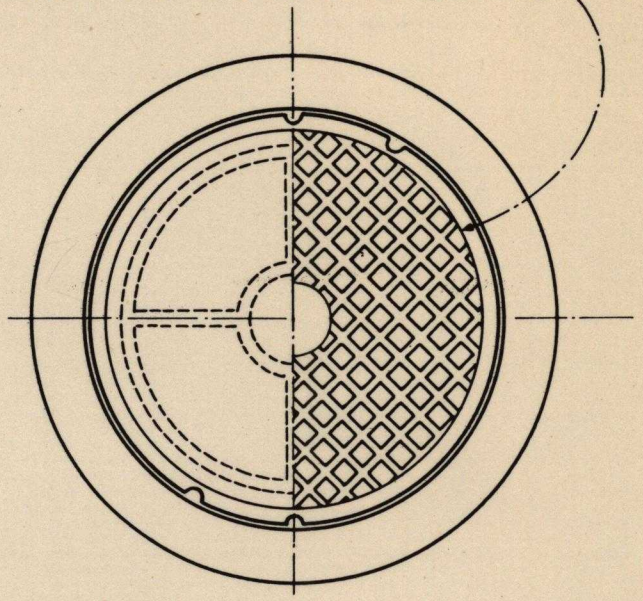


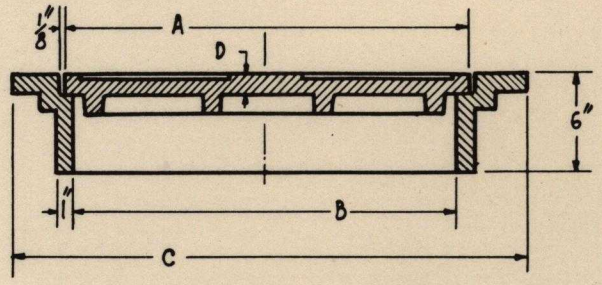
PATT. Nº	A	B	C	D	E	Nº SCREWS	WEIGHT
190	21 2/8"	18"	24"	32"	1 1/4"	4	375
191	27 2/8"	24"	30"	38"	1 1/2"	6	550
192	33 2/8"	30	36"	44"	1 1/2"	6	700



GRATING FURNISHED
WHEN SPECIFIED.

SOLID COVERS OR GRATINGS.





PATT. Nº	A	B	C	D	WEIGHT
270	19 3/4"	18"	26 1/2"	1 1/4"	350
271	21 3/4"	20"	28 1/2"	1 1/4"	400
272	25 3/4"	24"	32 1/2"	1 1/2"	450
273	31 3/4"	30"	38 1/2"	1 1/2"	575
274	38"	36"	44 1/2"	1 3/4"	800
275	44"	42"	50 1/2"	1 3/4"	950

CONTRACTORS FOUNDRY, PHILA., PA.

DATA SHEET Nº 120

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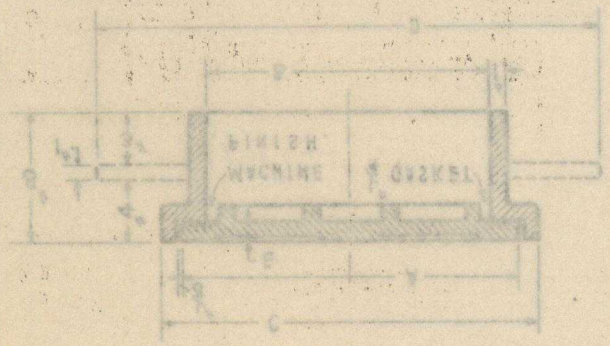
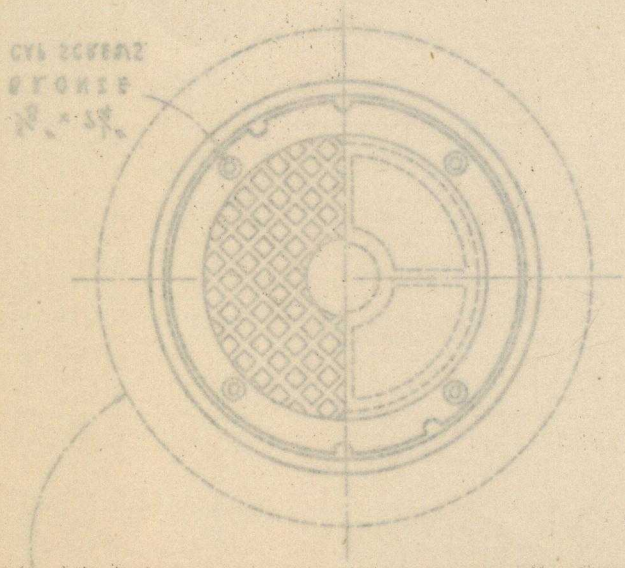
CAST IRON MANHOLE FRAMES & COVERS

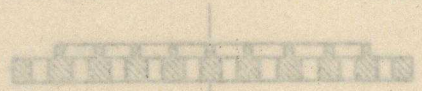
PATT. No	A	B	C	D	E	MASONRY	WEIGHT
150	31 1/2"	18"	34"	25"	1 1/2"	4	345
151	32 1/2"	34"	30"	32"	1 1/2"	5	550
152	33 1/2"	40"	36"	44"	1 1/2"	5	700

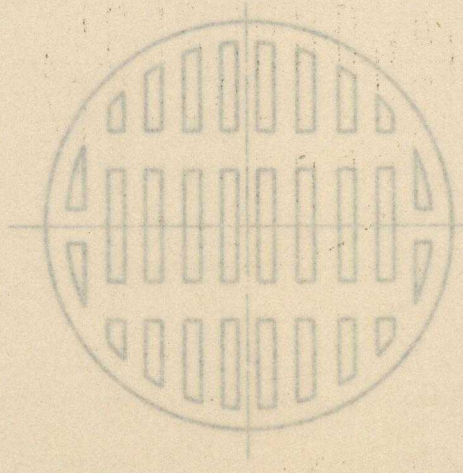




FURNISHED WITH OR WITHOUT CENTER FRAME

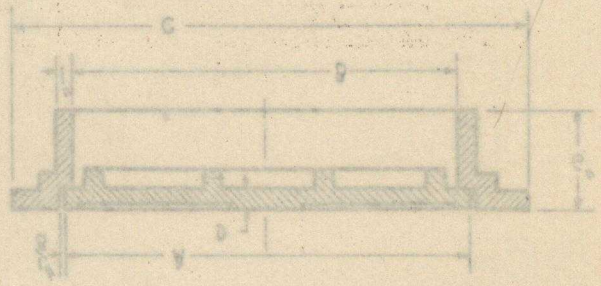
WHEN SPECIFIED
GRATING FURNISHED

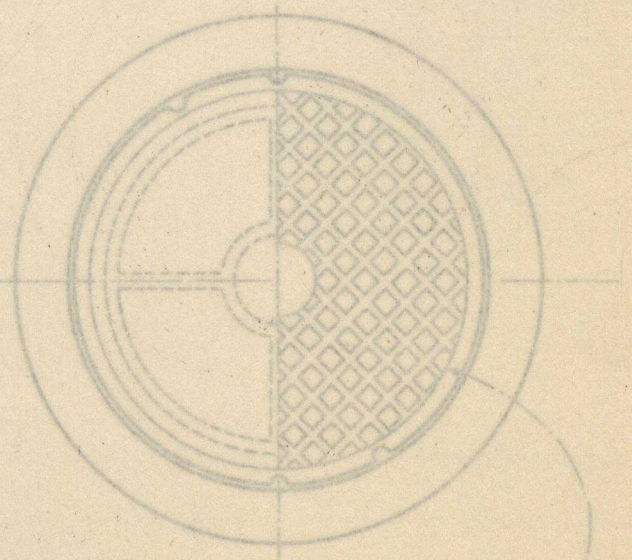




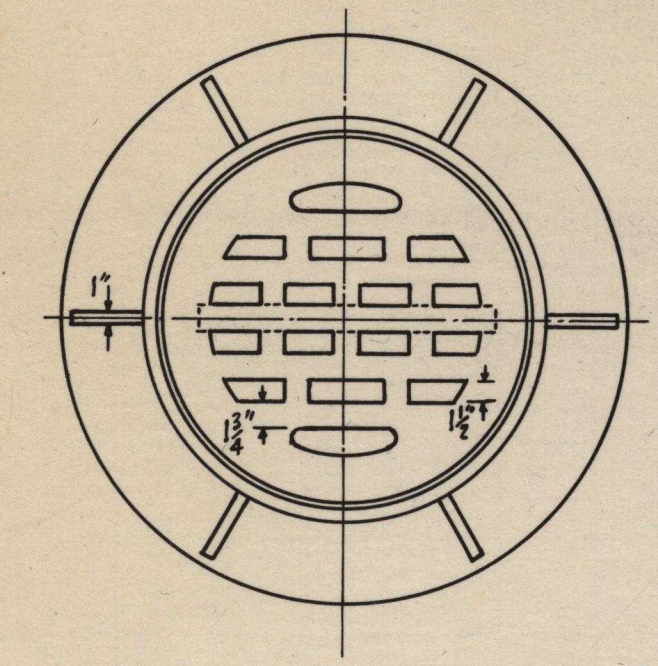
SOLID COVERS OR GRATINGS

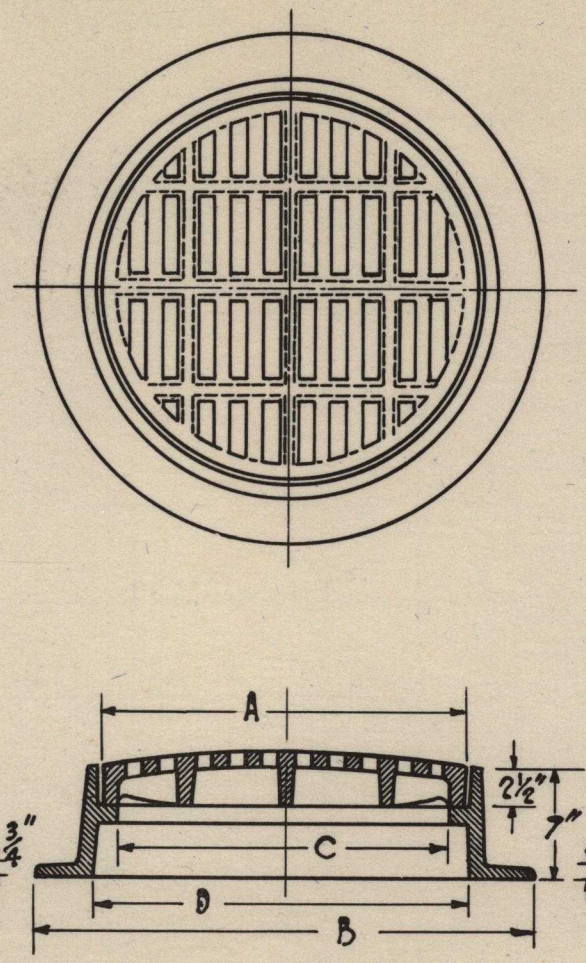
PATT. No	A	B	C	D	WEIGHT
310	19 1/2"	19"	30 1/2"	1 1/2"	320
311	31 1/2"	30"	32 1/2"	1 1/2"	400
312	32 1/2"	36"	33 1/2"	1 1/2"	450
313	31 1/2"	30"	28 1/2"	1 1/2"	515
314	29"	36"	44 1/2"	1 1/2"	600
315	34 1/2"	42"	50 1/2"	1 1/2"	750

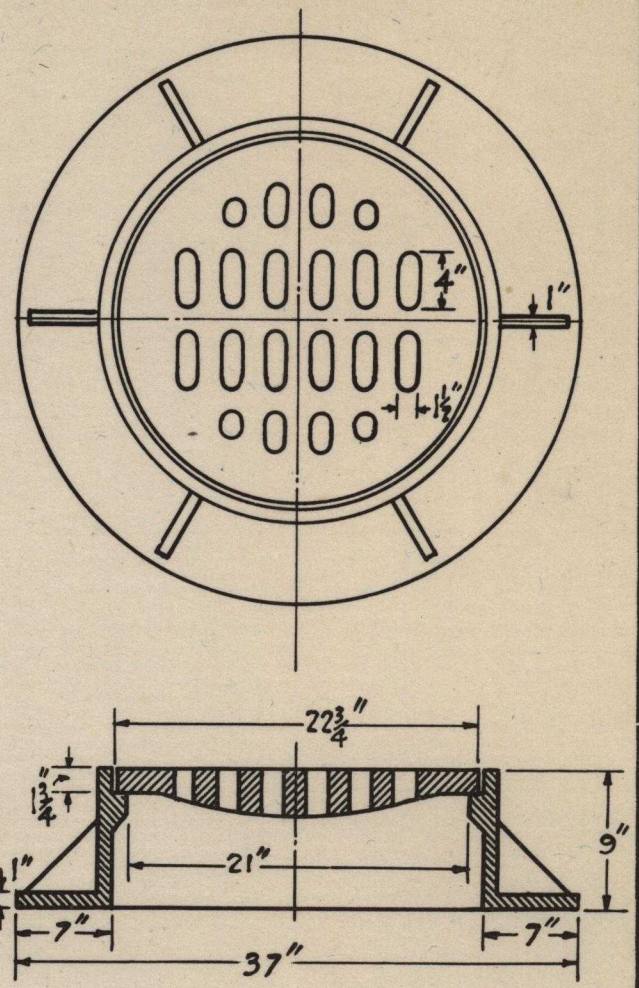




·CAST IRON · MANHOLE FRAMES & GRATING COVERS·







PATTERN No 241
WEIGHT 450·LBS.

[STRAIGHT GRATING FURNISHED WHEN SPECIFIED.]

PATTERN No	A	B	C	D	WEIGHT
229	24	31½	22	24½	375
230	24	28¾	22	24½	350

[PATTERN No 230 IS PENNSYLVANIA HIGHWAY DEPARTMENT STANDARD· FOR WASH RACK DRAIN. FITS INTO HUB OF 24" SEWER TILE.]

PATTERN No 41
WEIGHT 550·LBS.

[DISHED GRATING FURNISHED WHEN SPECIFIED.]

CONTRACTORS FOUNDRY INC., PHILA., PA.

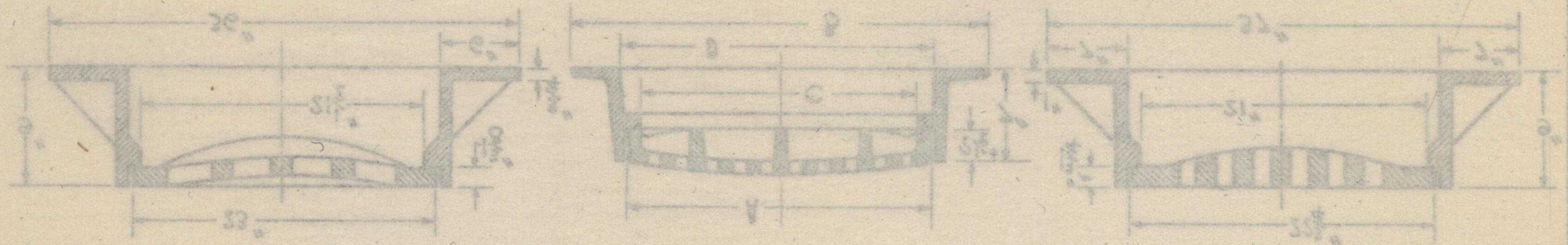
DATA SHEET No 122

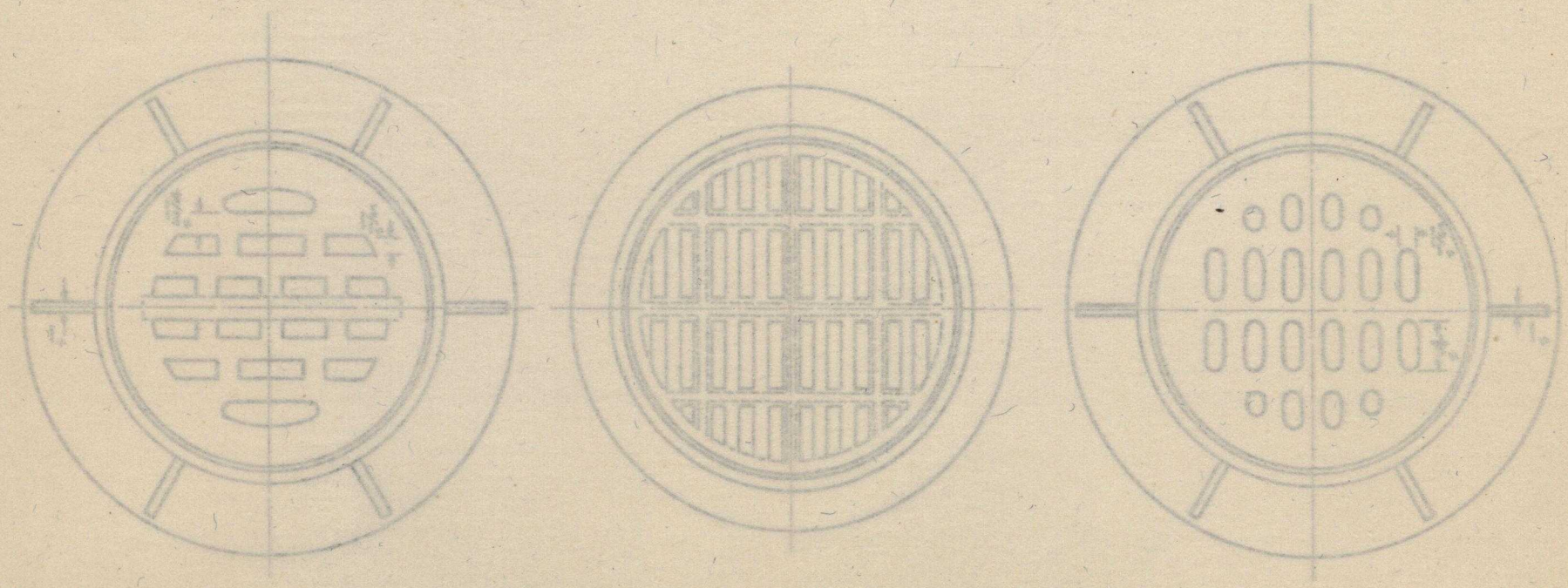
REVISED 10/9/40

[PATTERN No. 5808 PENNSYLVANIA
HIGHWAY DEPARTMENT STANDARD.
FOR WASH BACK DRAIN.
FITS INTO HUB OF 54" SEWER PIPE.]

PATTERN No.	A	B	C	D	WEIGHT
259	44	34½	33	34½	575
250	54	38½	33	34½	850

PATTERN No 41
WEIGHT 550-LBS.
[DIMPED GRATING FURNISHED WHEN SPECIFIED]

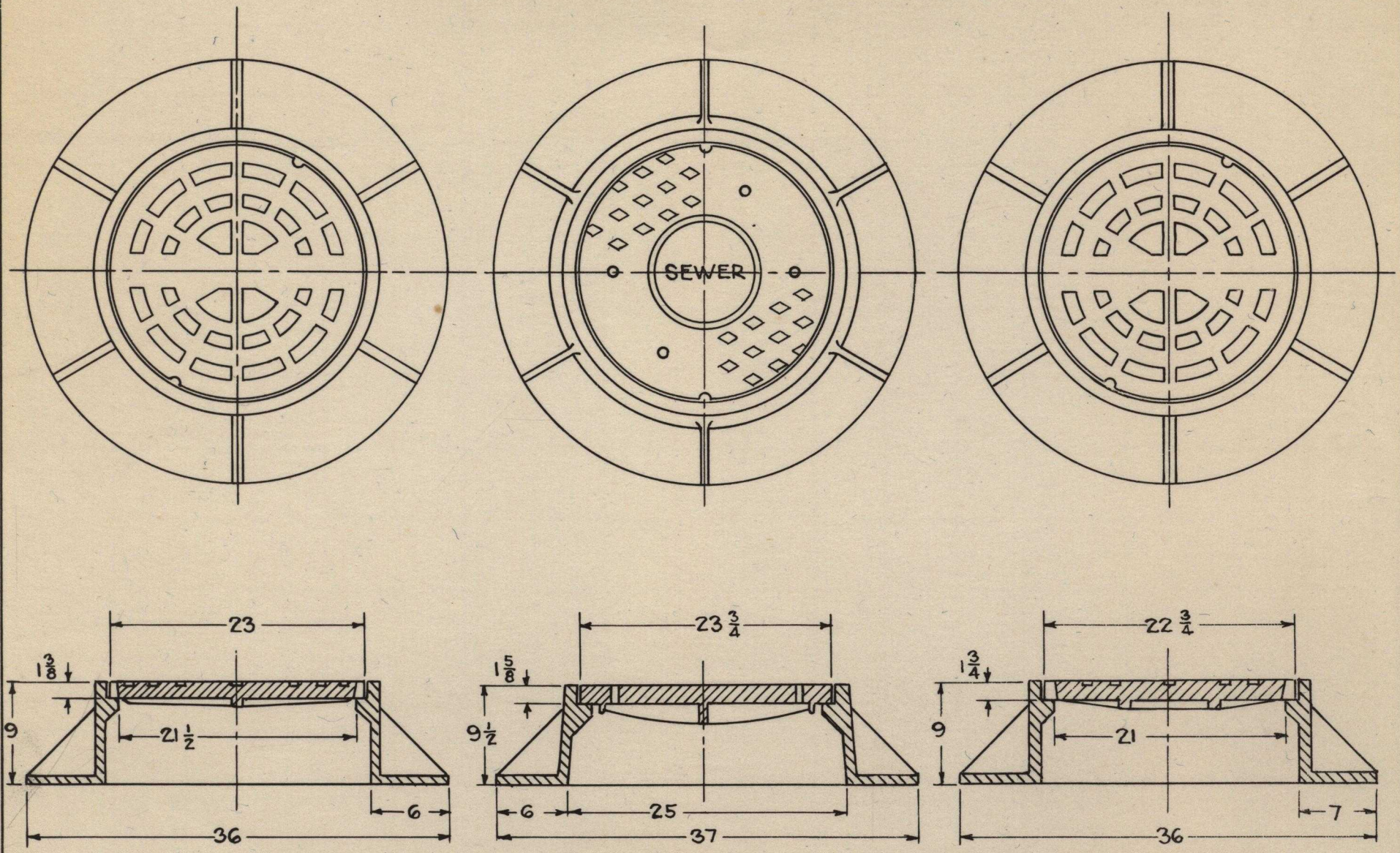




PATTERN No 241
WEIGHT 450-LBS.
[STRAIGHT GRATING FURNISHED WHEN SPECIFIED]

·CAST IRON · MANHOLE FRAMES & GRATING COVERS·

·CAST IRON·MANHOLE FRAMES & COVERS·



PATTERN Nº 49
WEIGHT 450 LBS.

PATTERN Nº 44
WEIGHT 550 LBS.

PATTERN Nº 50
WEIGHT 550 LBS.

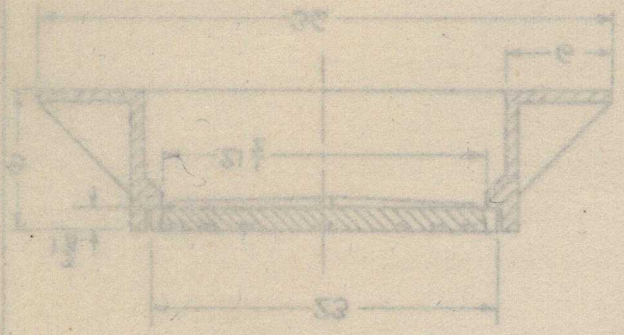
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 123

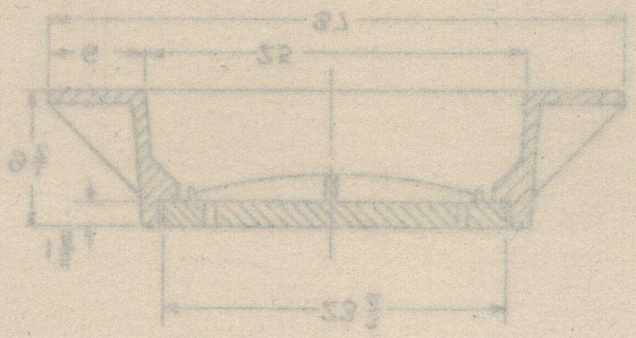
CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No 153

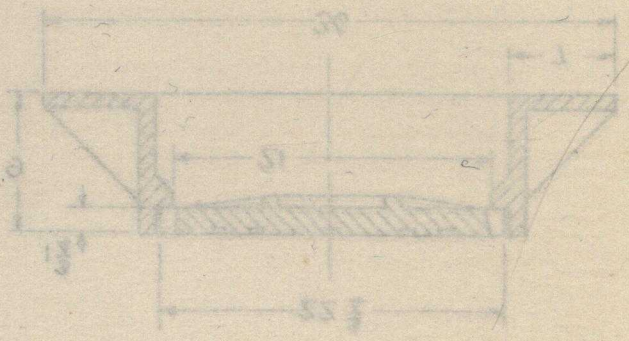
WEIGHT 450 LBS.
PATTERN No 49

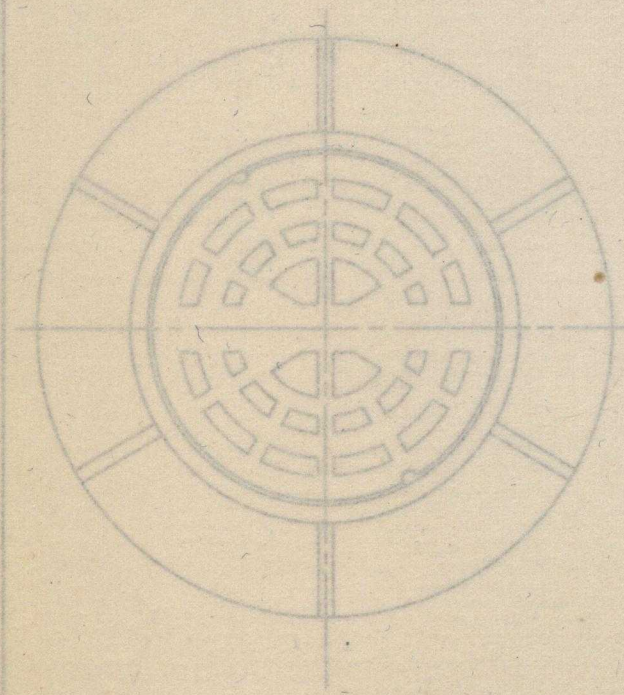


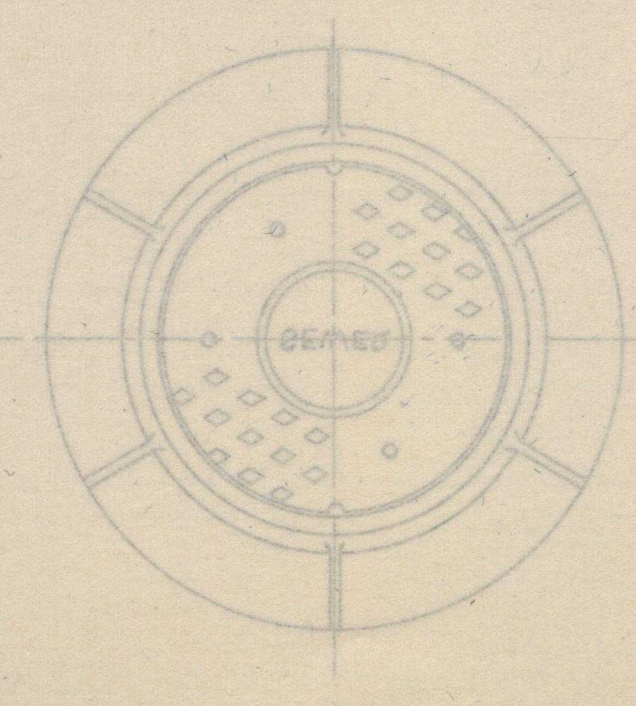
WEIGHT 550 LBS.
PATTERN No 44

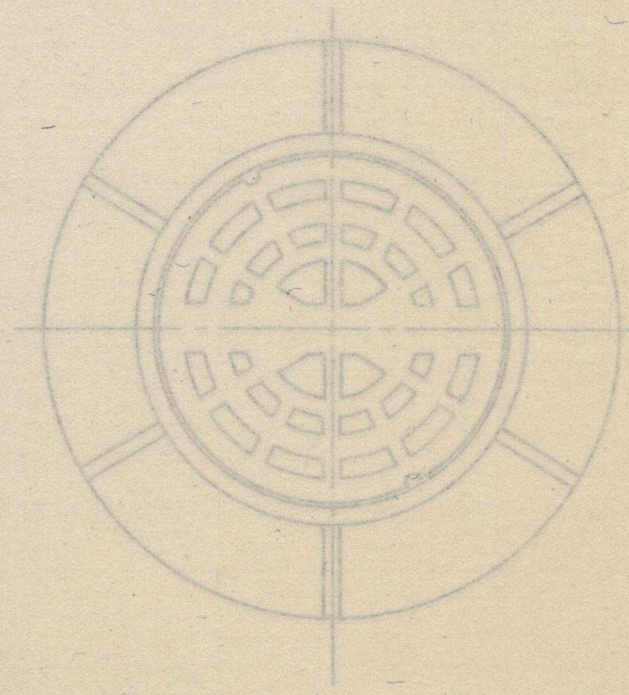


WEIGHT 550 LBS.
PATTERN No 59





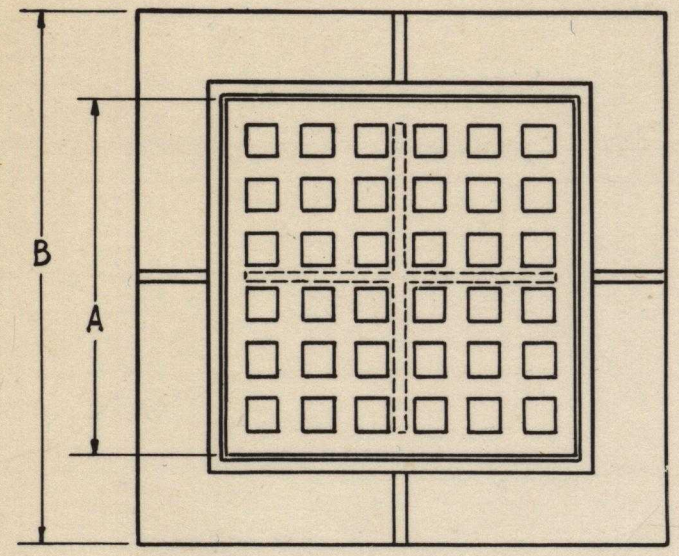


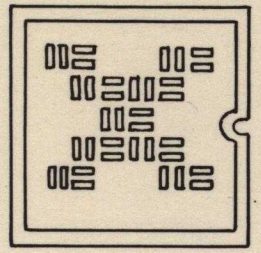


·CAST IRON MANHOLE FRAMES & COVERS·

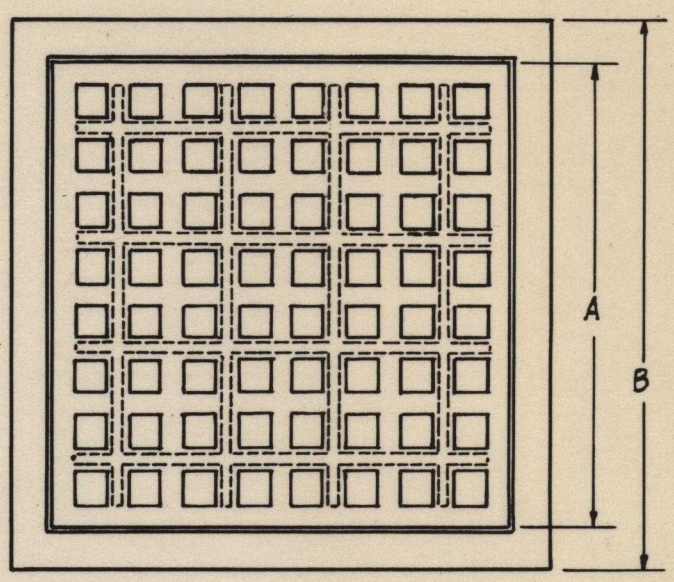
·CAST IRON FRAMES·WITH·GRATING OR SOLID COVERS·

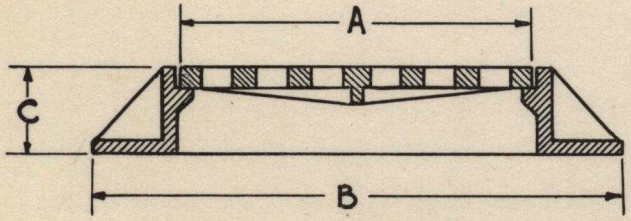
·HEAVY · SQUARE ·



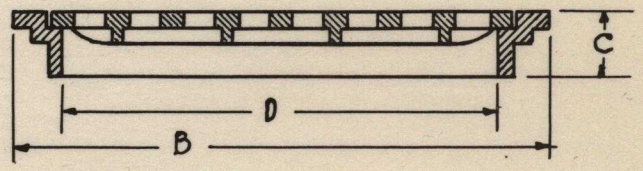


SOLID·COVERS
FURNISHED
WHEN SPECIFIED.





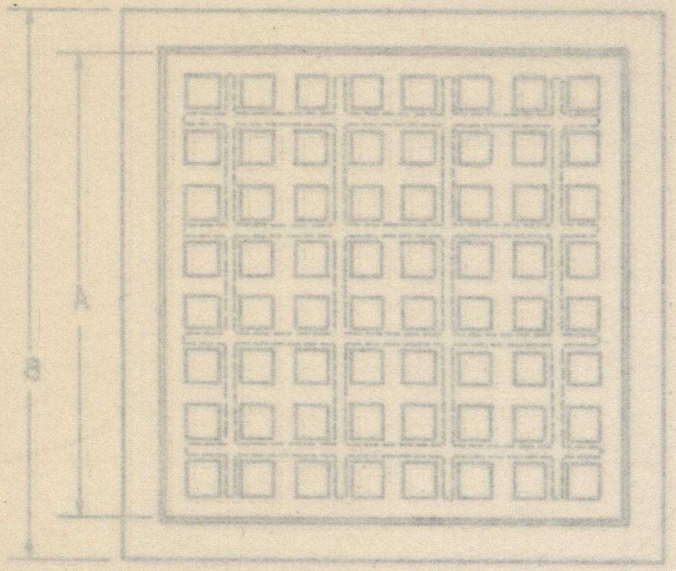
PATTERN Nº	A	B	C	WEIGHT
221	18	27	4	200
222	24	36	6	500
223	30	42	8	700
224	36	48	8	900
225	42	54	8	1100
226	48	60	8	1300

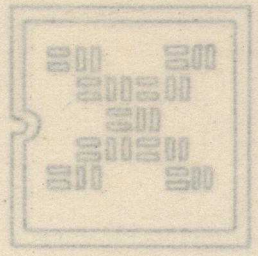


PATTERN Nº	A	B	C	D	WEIGHT
195	20	24	4½	18	250
196	26	31	4½	24	475
197	32	37	4½	30	650
198	38	43	4½	36	900
199	50	55	4½	48	1200

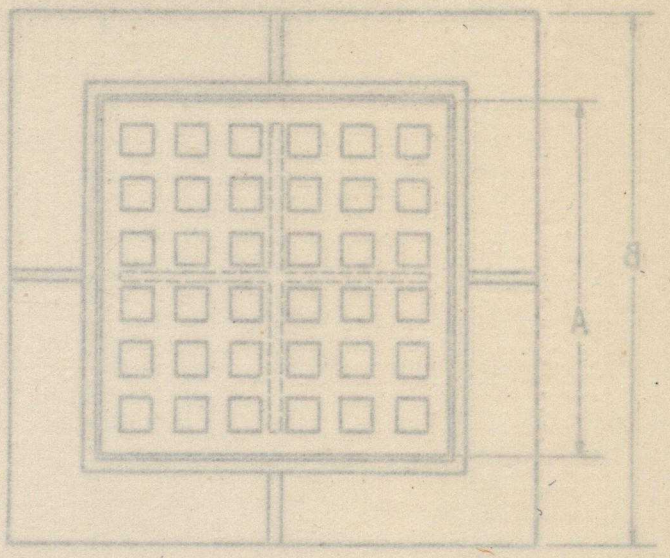
CAST IRON FRAMES WITH GRATING OR SOLID COVERS

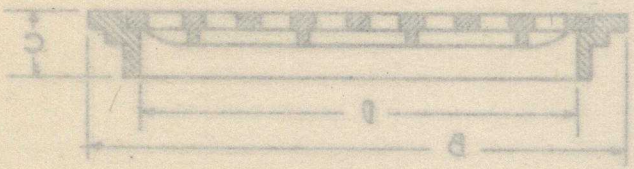
HEAVY SQUARE

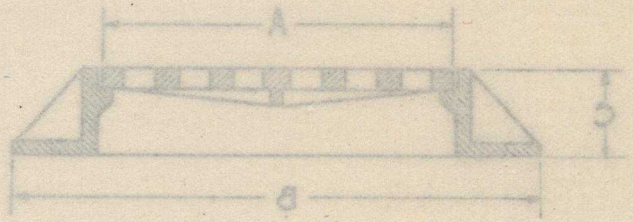




SOLID COVERS
FURNISHED
WHEN SPECIFIED





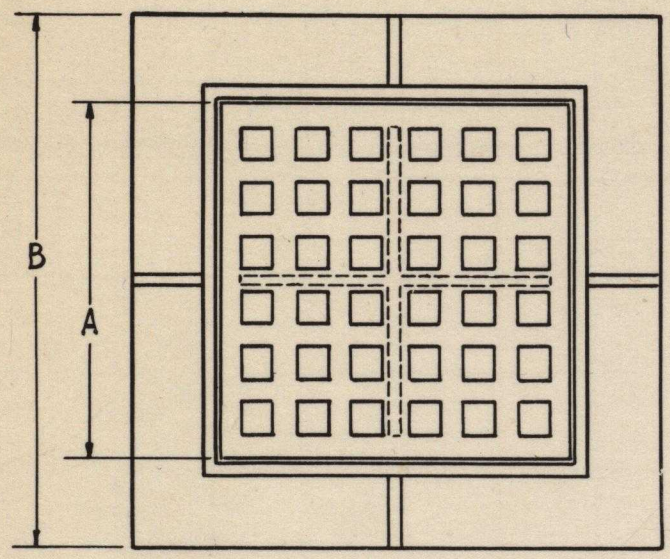


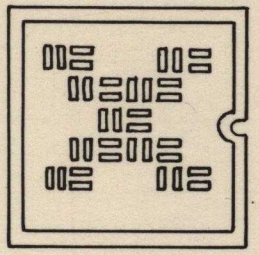
PATTERN Nº	A	B	C	D	WEIGHT
195	20	24	4½	18	250
196	26	31	4½	24	475
197	32	37	4½	30	650
198	36	43	4½	36	900
199	50	55	4½	48	1200

PATTERN Nº	A	B	C	WEIGHT
221	18	27	4	200
222	24	36	6	500
223	30	42	8	700
224	36	48	8	900
225	42	54	8	1100
226	48	60	8	1300

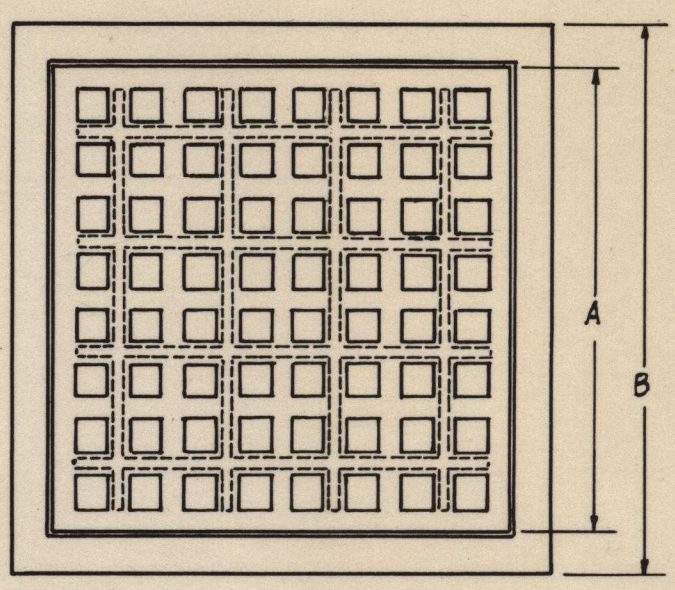
·CAST IRON FRAMES·WITH·GRATING OR SOLID COVERS·

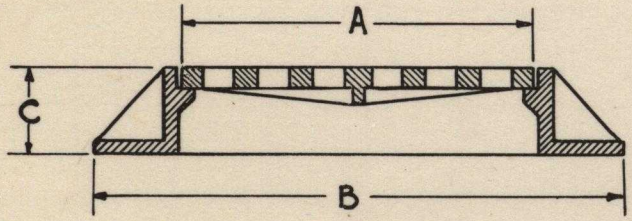
·HEAVY · SQUARE ·

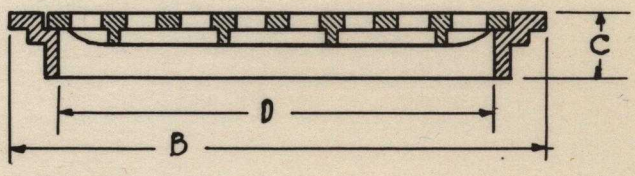




SOLID·COVERS
FURNISHED
WHEN SPECIFIED.



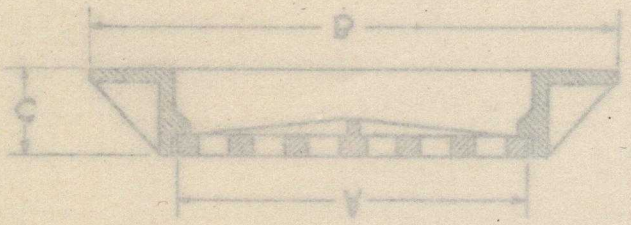




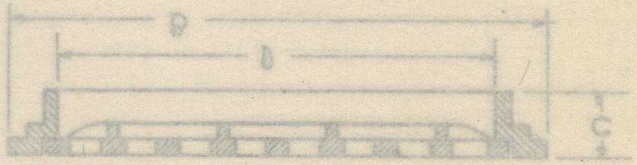
PATTERN Nº	A	B	C	WEIGHT
221	18	27	4	200
222	24	36	6	500
223	30	42	8	700
224	36	48	8	900
225	42	54	8	1100
226	48	60	8	1300

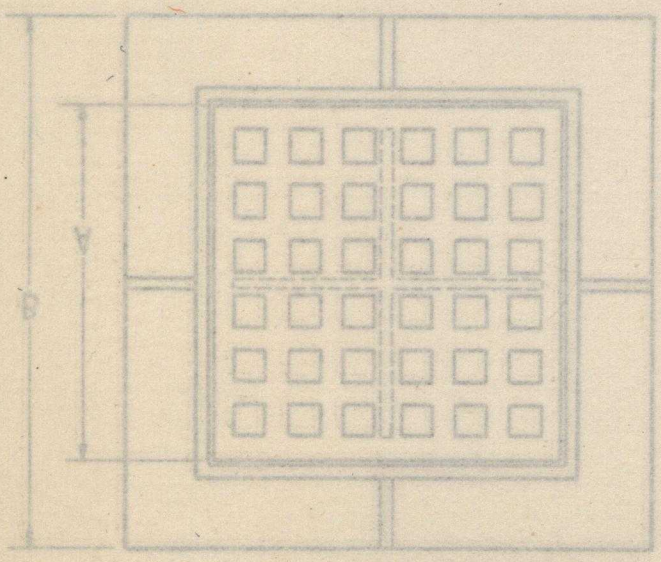
PATTERN Nº	A	B	C	D	WEIGHT
195	20	24	4½	18	250
196	26	31	4½	24	475
197	32	37	4½	30	650
198	38	43	4½	36	900
199	50	55	4½	48	1200

PATTERN No	A	B	C	WEIGHT
221	18	15	4	200
222	24	36	6	500
223	30	45	8	700
224	36	48	8	900
225	42	54	8	1100
226	48	60	8	1300

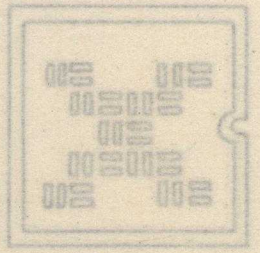


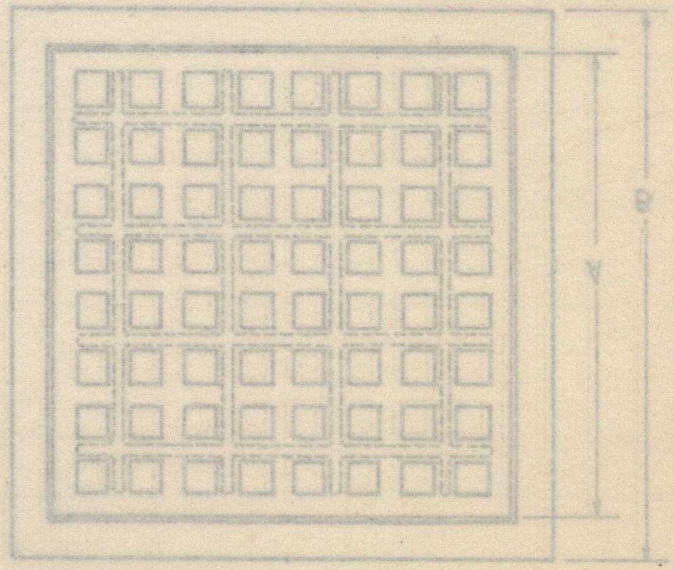
PATTERN No	A	B	C	D	WEIGHT
161	20	24	4½	18	250
162	25	31	4½	24	415
163	30	36	4½	30	650
164	36	43	4½	36	900
165	40	55	4½	48	1500





WHEN SPECIFIED
FURNISHED
SOLID COVERS



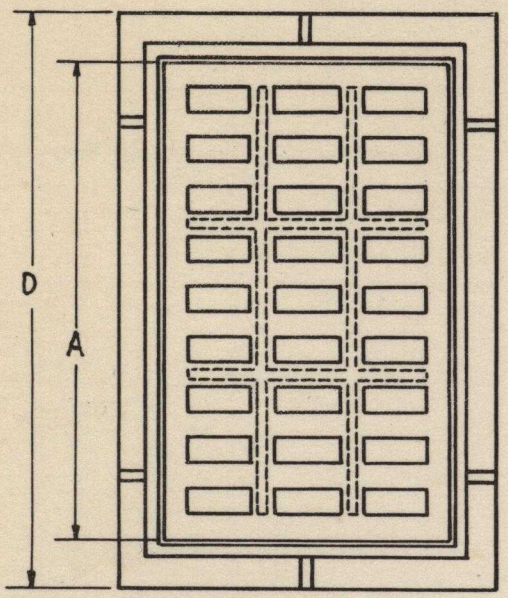


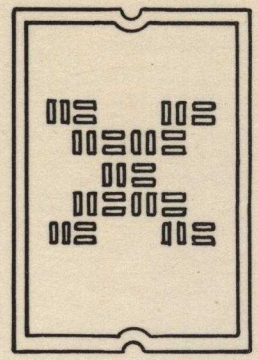
HEAVY SQUARE

CAST IRON FRAMES WITH GRATING OR SOLID COVERS

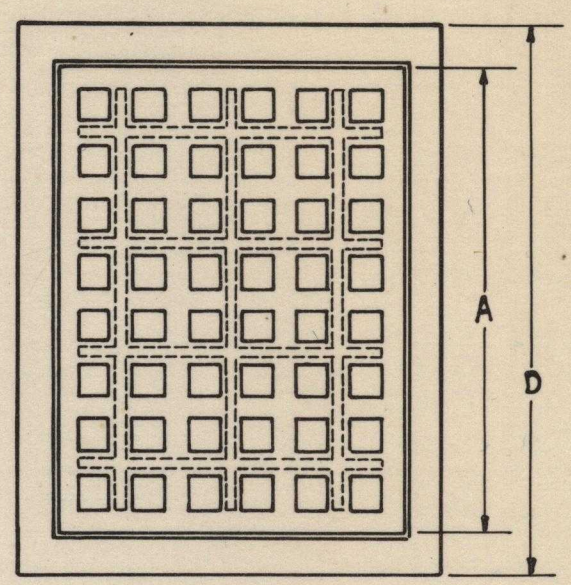
·CAST IRON·FRAMES·WITH·GRATING OR SOLID COVERS·

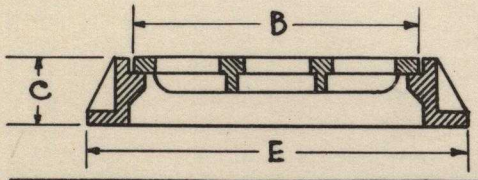
HEAVY·RECTANGULAR



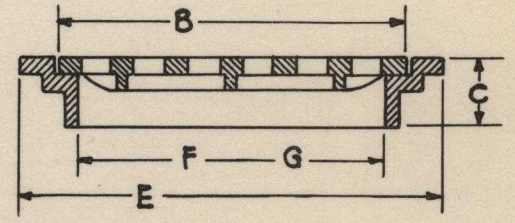


SOLID COVERS
FURNISHED
WHEN SPECIFIED.





PATTERN Nº	A	B	C	D	E	WEIGHT
201	24	12	4	30	18	200
202	24	18	4	30	24	300
203	30	18	4	36	24	350
204	36	24	4½	43	31	600
205	48	24	4½	55	31	750
206	42	30	4½	50	38	775
207	48	30	4½	56	38	900
208	48	36	6	56	48	1200



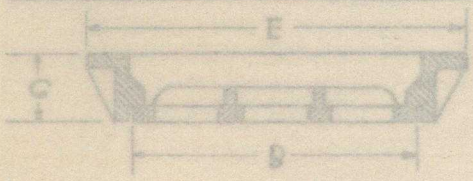
PATTERN Nº	A	B	C	D	E	F	G	WEIGHT
357	26	20	4½	30	24	18	24	300
358	32	26	4½	37	31	24	30	550
359	38	26	4½	43	31	24	36	600
360	50	26	4½	55	31	24	48	775
361	50	38	4½	55	43	36	48	1100

CONTRACTORS FOUNDRY INC., PHILA., PA.

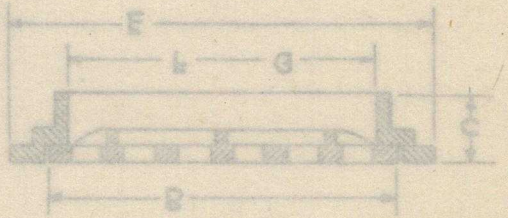
DATA SHEET Nº 126

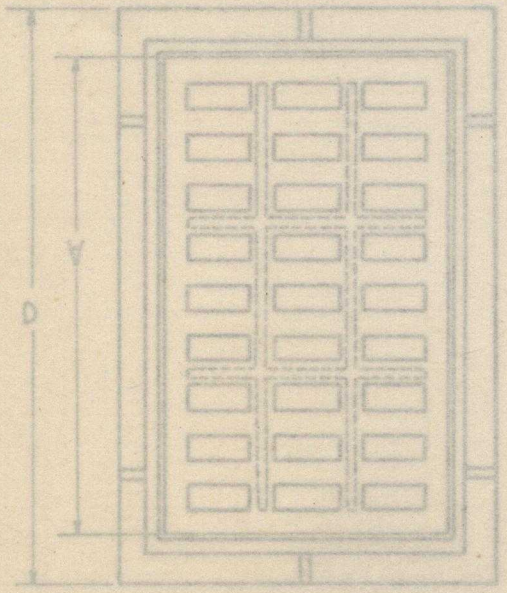
REVISED 3/23/40.

PATTERN No	A	B	C	D	E	WEIGHT
201	24	15	4	20	18	200
202	24	18	4	20	24	300
203	30	18	4	26	24	350
204	36	24	4½	29	31	600
205	48	24	4½	32	31	750
206	42	30	4½	30	38	775
207	48	30	4½	36	38	900
208	48	36	6	36	48	1500

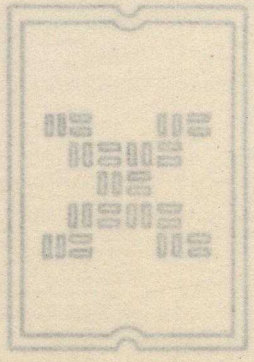


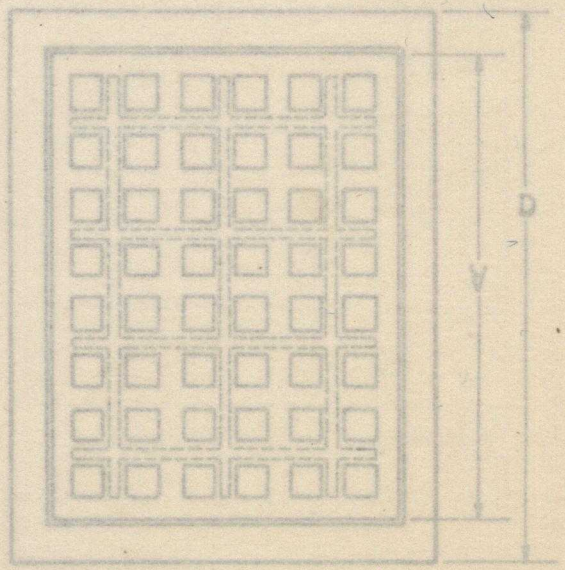
PATTERN No	A	B	C	D	E	F	G	WEIGHT
351	20	28	4½	32	42	36	48	1100
360	20	32	4½	32	51	42	48	1375
359	28	32	4½	42	51	42	36	1600
358	32	32	4½	46	51	42	30	1550
357	36	20	4½	30	54	18	54	1500





WHEN SPECIFIED
FURNISHED
SOLID COVERS

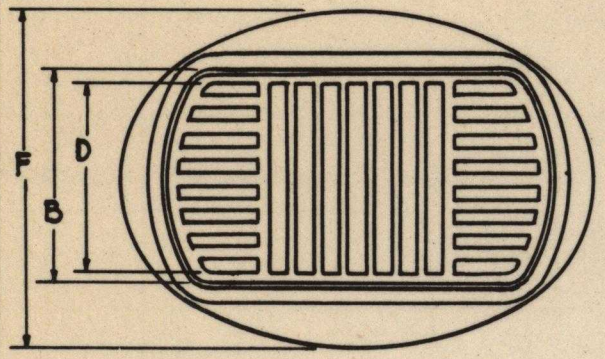


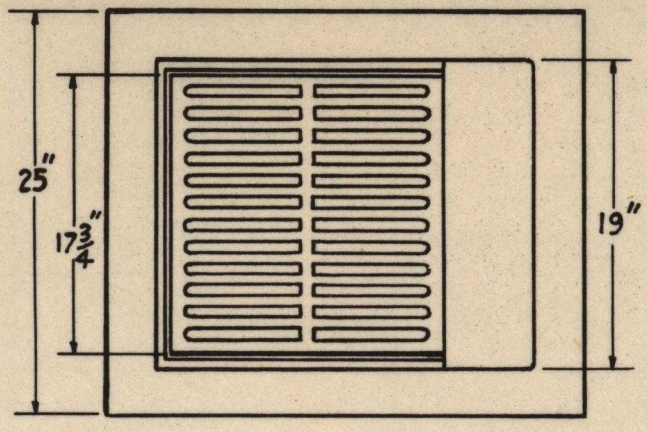


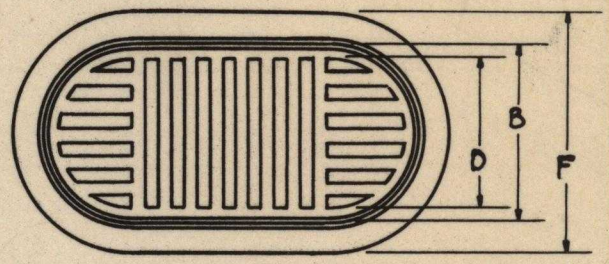
·CAST IRON·FRAMES·WITH·GRATING OR SOLID COVERS·

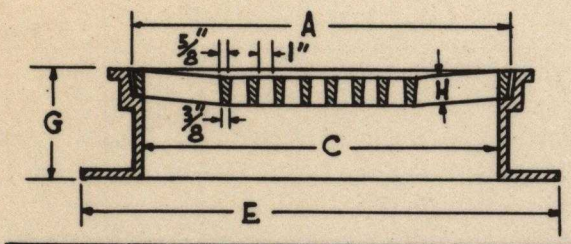
HEAVY·RECTANGULAR

·CAST IRON·ROADWAY DRAINS·





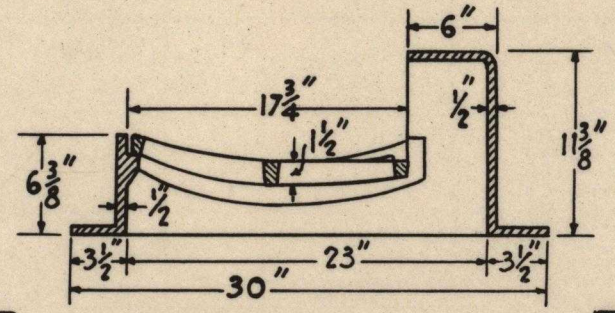




PATTERN Nº	A	B	C	D	E	F	G	H	WEIGHT
151	24	13	22	11¼	28½	18	6⅜	1¾	125
152	18	12	16¼	10¼	22½	17	6⅜	1¾	100

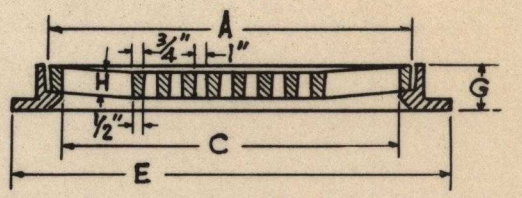
GRATING PATTERN Nº 151 NET OPENING 1.0 SQ.FT.
GRATING PATTERN Nº 152 NET OPENING .75 SQ.FT.

[LANSDOWNE·DESIGN]



PATTERN Nº 172
WEIGHT 250·LBS.

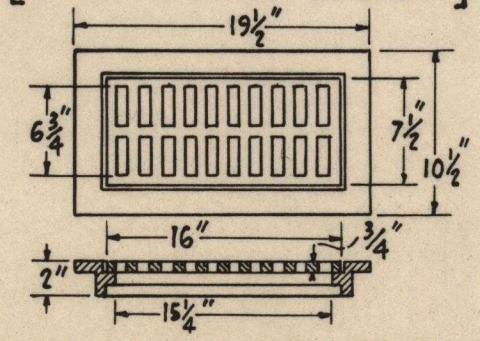
[BOULEVARD DESIGN]



PATTERN Nº	A	B	C	D	E	F	G	H	WEIGHT
161	22	11	21	9½	27	15½	3	1¾	88
162	18	9	16½	8	22	14	3	1½	55

GRATING PATTERN Nº 161 NET OPENING .75 SQ.FT.
GRATING PATTERN Nº 162 NET OPENING .50 SQ.FT.

[PARK DESIGN]



PATTERN Nº 171 · WEIGHT 35·LBS.

[STEP·OR·WALK DRAIN]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 128

CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No 158

·CAST IRON· ROADWAY DRAINS·

PATTERN No 151 · WEIGHT 35·LBS.

[STEP-OR-MARK DRAIN]

PATTERN No 152 WEIGHT 52·LBS.

[BOULEVARD DESIGN]

[PARK DESIGN]

GRATING PATTERN No 161 NET OPENING 25 SQ.FT.
GRATING PATTERN No 162 NET OPENING 20 SQ.FT.

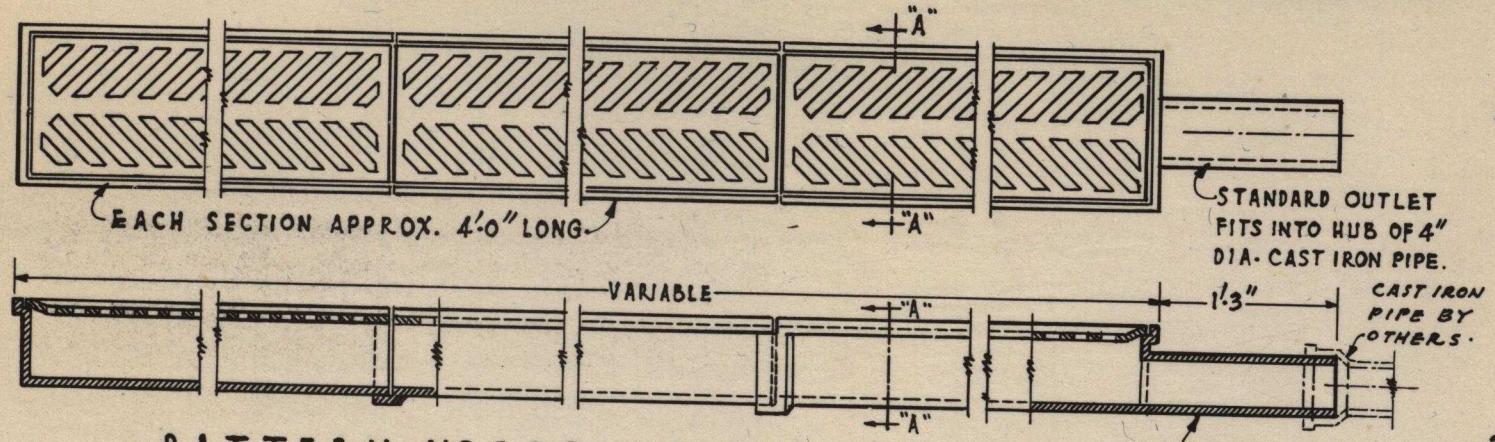
PATTERN No	A	B	C	D	E	F	G	H	WEIGHT
161	55	11	21	9 5/8	22	12 5/8	3	1 3/4	88
162	18	6	10 5/8	8	22	14	3	1 5/8	22

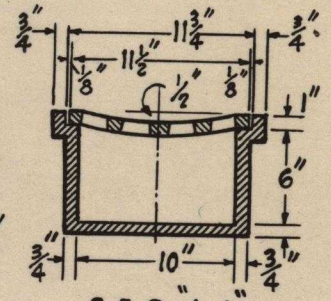
[LANDSCAPING DESIGN]

GRATING PATTERN No 151 NET OPENING 10 SQ.FT.
GRATING PATTERN No 152 NET OPENING 15 SQ.FT.

PATTERN No	A	B	C	D	E	F	G	H	WEIGHT
151	24	12	22	11 3/4	28 3/4	18	6 3/8	1 3/4	152
152	18	15	18 3/4	10 3/4	22 3/4	15	6 3/8	1 3/4	100

CAST IRON · INTERCEPTING GUTTERS · WITH GRATING COVERS.

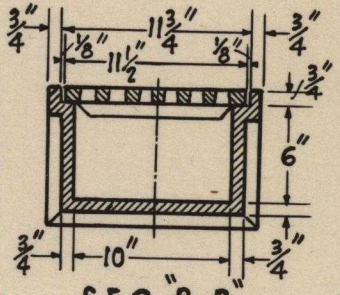




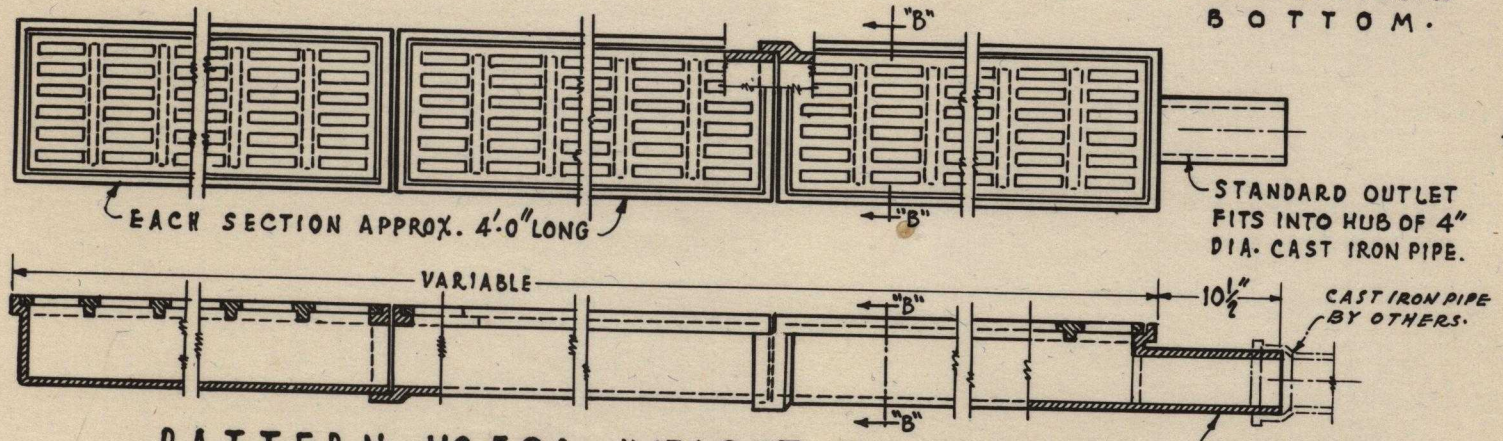
SEC. "A-A"

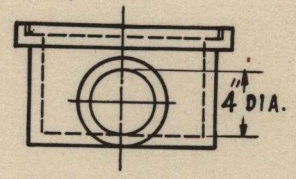
PATTERN Nº 588 · WEIGHT 100 LBS. PER FOOT.

[PUBLIC BLDGS. ADM. DETAIL SA-9 & SA-10]



SEC. "B-B"

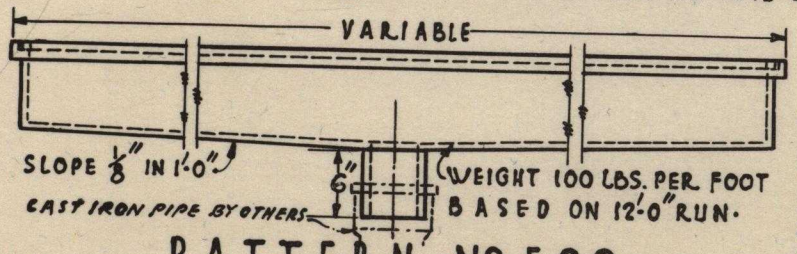




END VIEW

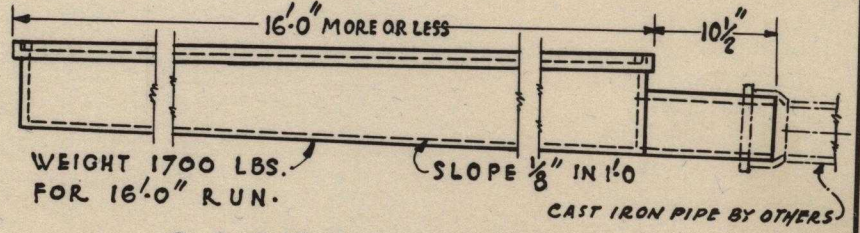
PATTERN Nº 591 · WEIGHT 100 LBS. PER FOOT.

[U.S. TREASURY DETAIL Nº 12 DRAWING M-370]



PATTERN Nº 589

·NOTE·
PATTERN Nºs 589 & 590 HAVE SAME COVERS AS PATTERN Nº 591



PATTERN Nº 590

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 129

REVISED 1/18/41

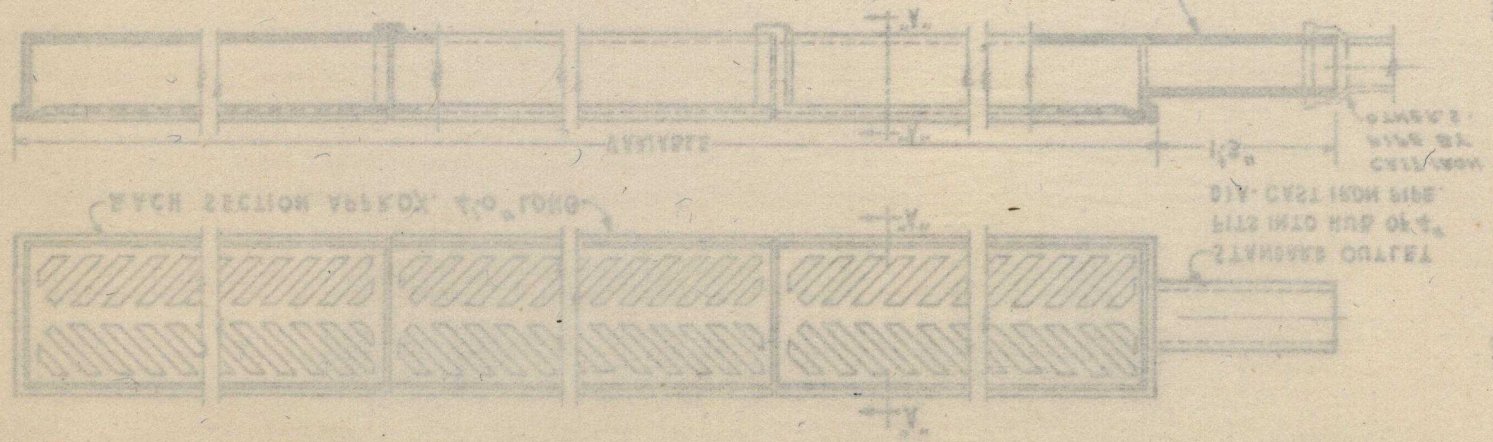
CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No 159

CAST IRON · INTERCEPTING GULLEYS · WITH GRATING COVERS

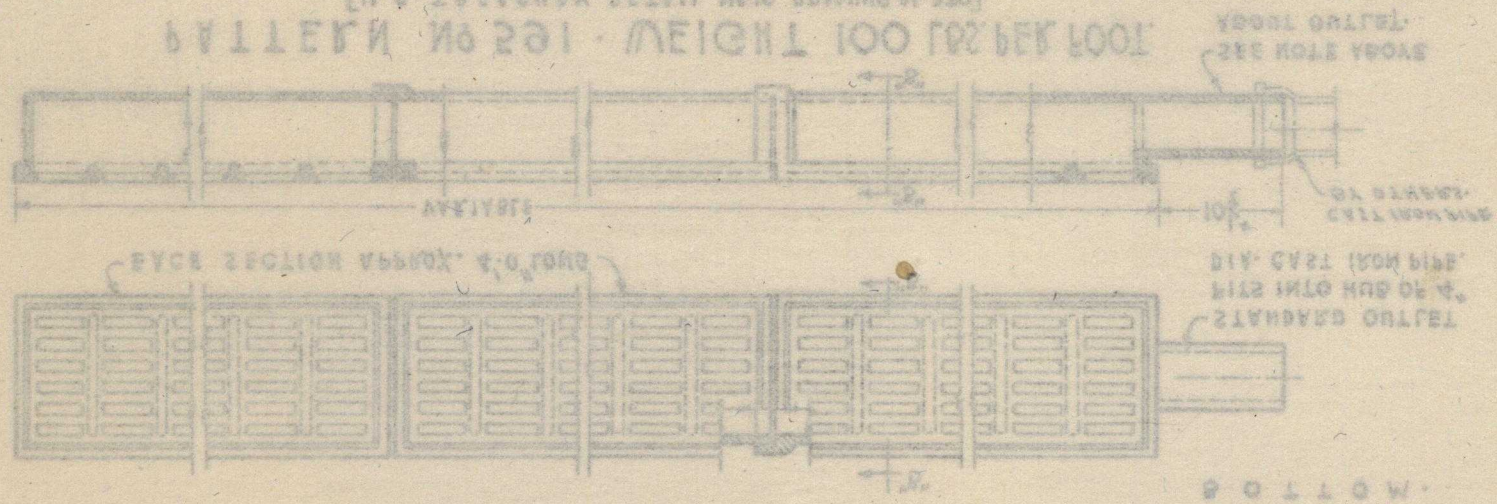
PATTERN No 288 · WEIGHT 100 LBS PER FOOT

[Plastic grade - Nom. Datum 24.9 @ 24-10]

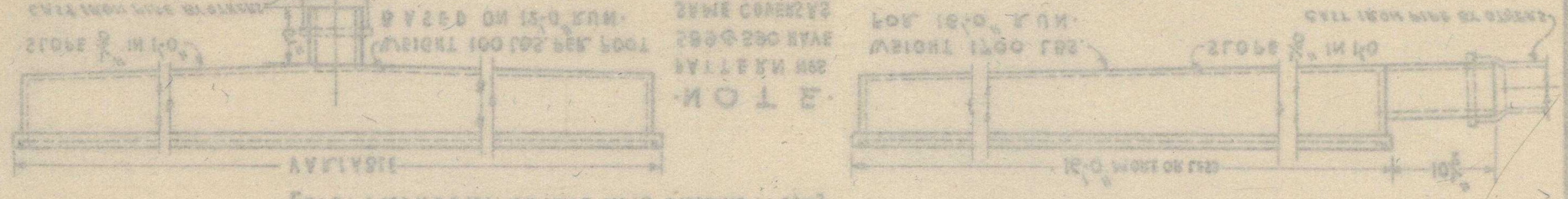


PATTERN No 289

[U.S. Treasury Detail No 12 Drawing M-370]

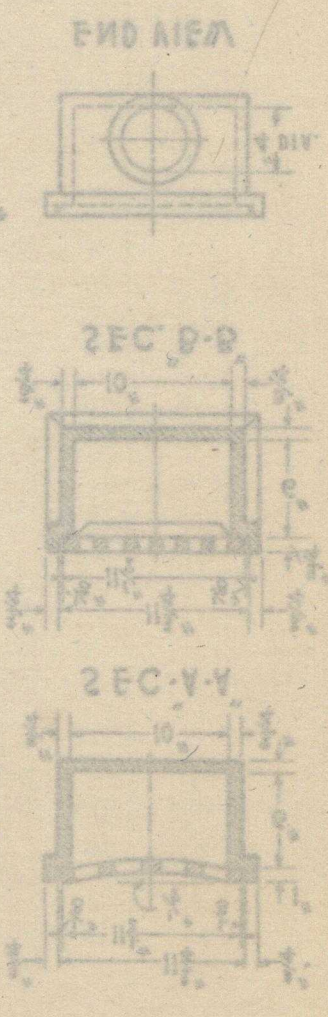


PATTERN No 290

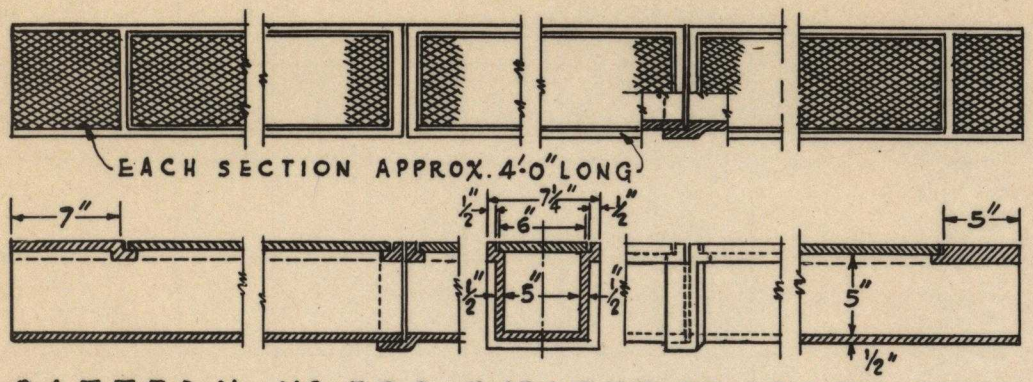


NOTE

PATTERN No 291 SAME COVERS AS 289 & 290 HAVE PATTERN No 288

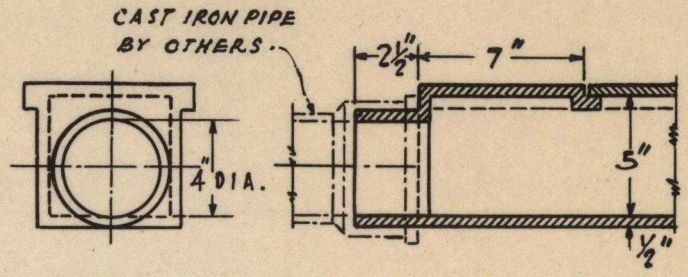


CAST IRON · SIDEWALK GUTTERS WITH SOLID COVERS ·



PATTERN Nº 592 · WEIGHT 50 LBS. PER FOOT.

[PUBLIC BUILDINGS ADMINISTRATION DETAIL SA · 8]



END VIEW SEC. ON ℄ ·

2 1/2" LONG INLET TO FIT INTO HUB OF 4" DIA. CAST IRON PIPE.

[PUBLIC BLDGS · ADM · DETAIL SA · 10]

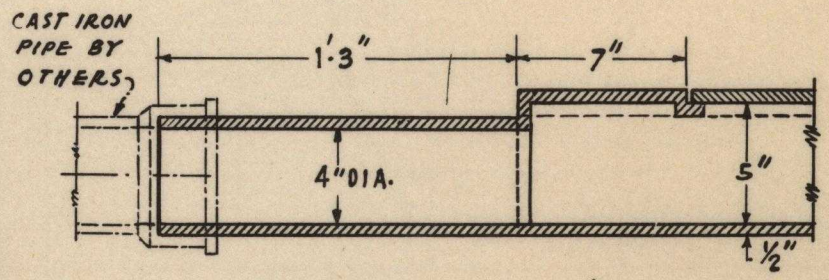
SPECIAL · INLET · TYPE "A".

· OTHER · SIZES · AVAILABLE ·

PATTERN Nº	INSIDE DEPTH	INSIDE WIDTH	WEIGHT PER FOOT
593	4	6	35
594	4	8	55
595	5	5 1/2	52
596	5	8	58
597	5	10	65
598	5	11 1/2	70
599	5	12	82
600	6	5	54

PATTERN Nº	INSIDE DEPTH	INSIDE WIDTH	WEIGHT PER FOOT
601	6	6	56
606	6	8	60
587	6 1/2	16	112
607	7	7	60
608	7	10	72
609	7 3/4	5	60
610	8	6	60
611	8	8	65
616	6	10	90

PATTERN Nº 616 METAL IS 3/4" THICK.
ALL OTHER PATTERNS METAL IS 1/2" THICK.
COVERS CAN BE PERFORATED.



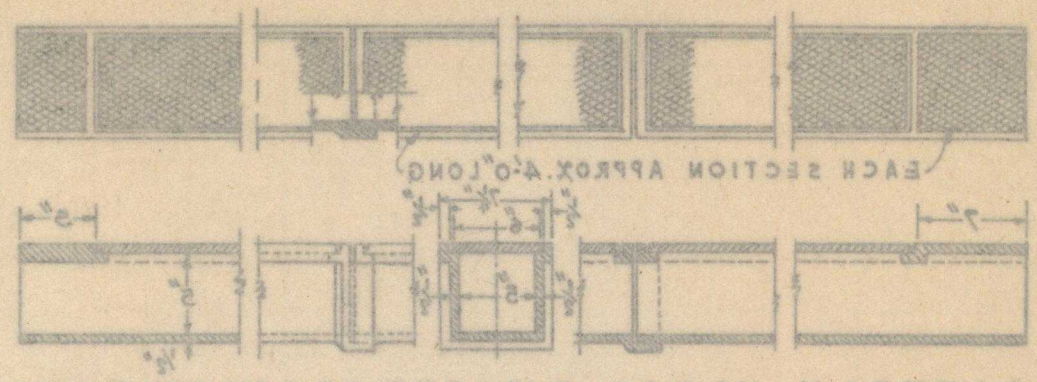
SEC. ON ℄ ·

1'-3" LONG INLET TO FIT INTO HUB OF 4" DIA. CAST IRON PIPE.

[PUBLIC BLDGS · ADM · DETAIL SA · 9]

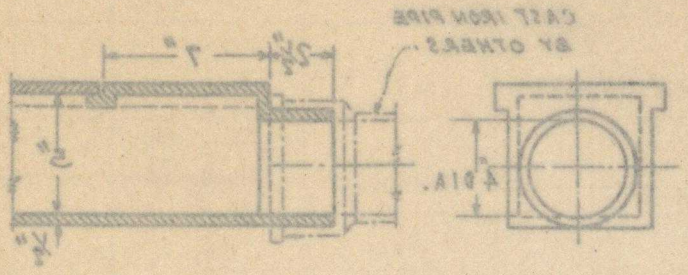
SPECIAL · INLET · TYPE "B".

CAST IRON SIDEWALK GUTTERS WITH SOLID COVERS.



PATTERN Nº 592 · WEIGHT 50 LBS. PER FOOT.

[PUBLIC BUILDINGS ADMINISTRATION DETAIL SA-8]



2 1/2" LONG INLET TO FIT INTO HUB OF 4" DIA. CAST IRON PIPE.

[PUBLIC BLDGS. ADM. DETAIL SA-10]

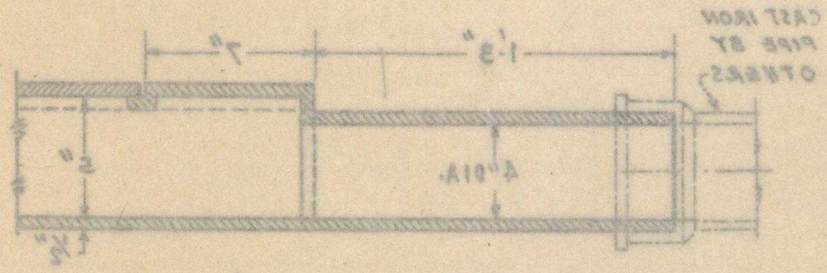
SPECIAL INLET TYPE "A".

OTHER SIZES AVAILABLE.

PATTERN Nº	INSIDE DEPTH	INSIDE WIDTH	WEIGHT PER FOOT
593	4	6	35
594	4	8	55
595	5	5 1/2	52
596	5	8	58
597	5	10	65
598	5	11 1/2	70
599	5	12	82
600	6	5	54

PATTERN Nº	INSIDE DEPTH	INSIDE WIDTH	WEIGHT PER FOOT
601	6	6	56
606	6	8	60
587	6 1/2	16	112
607	7	7	60
608	7	10	72
609	7 1/2	5	60
610	8	6	60
611	8	8	65
616	6	10	90

PATTERN Nº 616 METAL IS 3/8" THICK.
ALL OTHER PATTERNS METAL IS 1/2" THICK.
COVERS CAN BE PERFORATED.



SEC. ON ℄.

1'-3" LONG INLET TO FIT INTO HUB OF 4" DIA. CAST IRON PIPE.

[PUBLIC BLDGS. ADM. DETAIL SA-9]

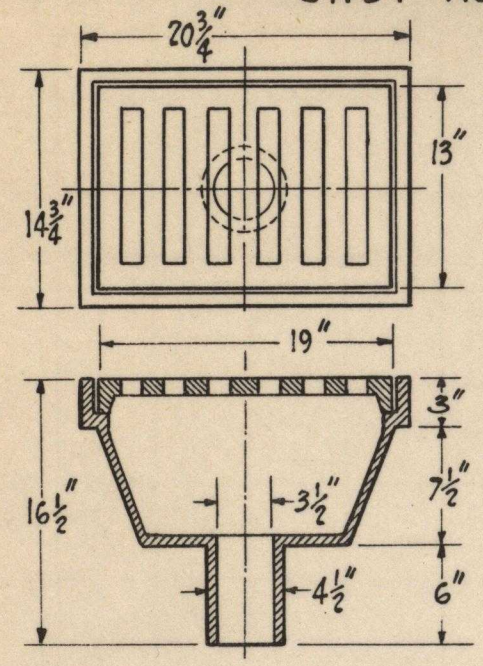
SPECIAL INLET TYPE "B".

CONTRACTORS FOUNDRY INC., PHILA., PA.

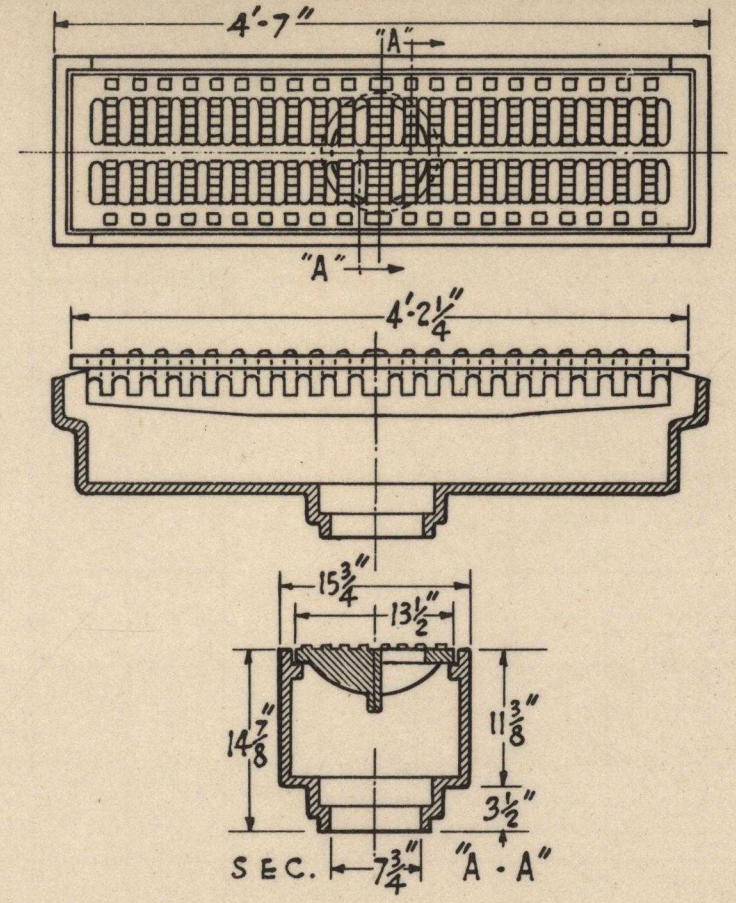
DATA SHEET Nº 150

REVISED 1/15/44

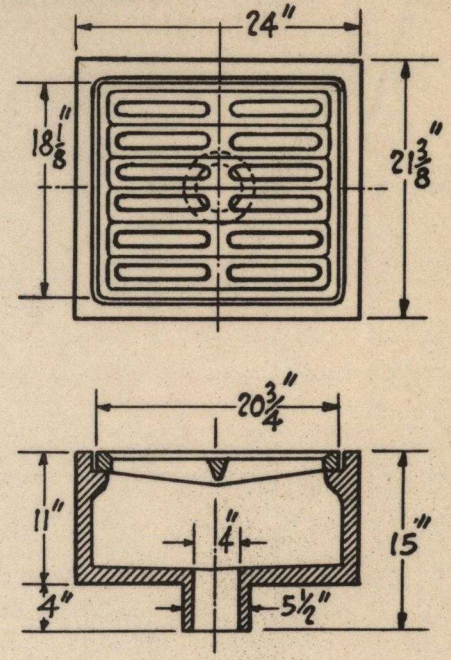
·CAST IRON · TRACK DRAIN & BRIDGE SCUPPERS·



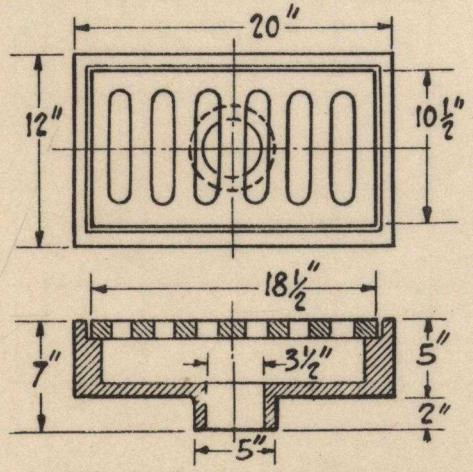
PATTERN Nº 143
WEIGHT · 400 · LBS.



PATTERN Nº 144
WEIGHT · 950 · LBS.
·STANDARD 4'-8 1/2" GAUGE · TRACK · DRAIN·

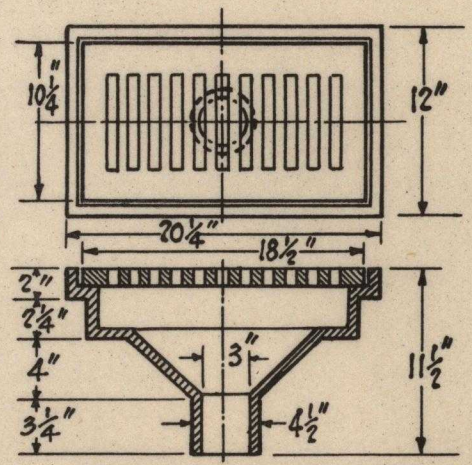


PATTERN Nº 142
WEIGHT · 400 · LBS.



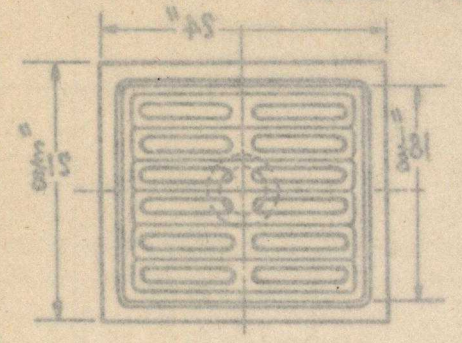
PATTERN Nº 140
WEIGHT · 225 · LBS.

·VARIOUS · OUTLET
·SIZES · CAN · BE ·
·FURNISHED.

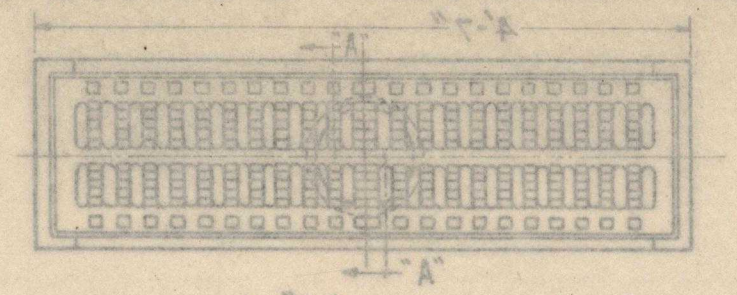


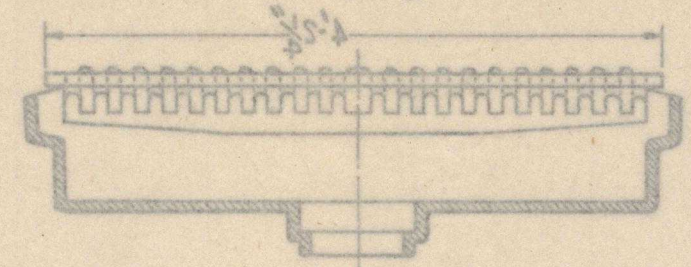
PATTERN Nº 141
WEIGHT · 300 · LBS.

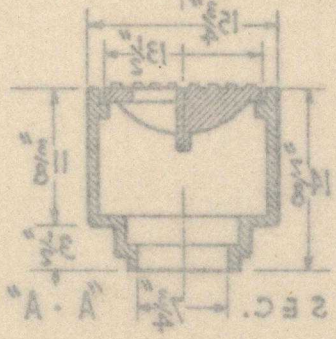
CAST IRON · TRACK DRAIN & BRIDGE SCUPPERS.



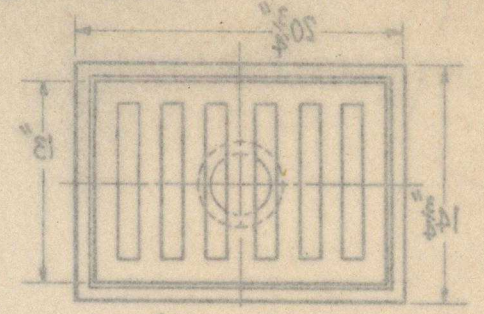
PATTERN No 142
WEIGHT · 400 · LBS.



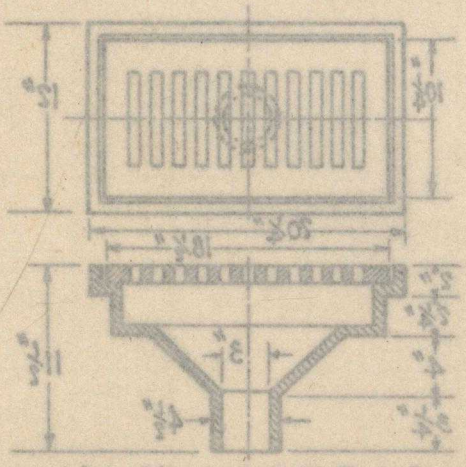




PATTERN No 144
WEIGHT · 950 · LBS.
STANDARD 4'-8½" GAUGE · TRACK · DRAIN.

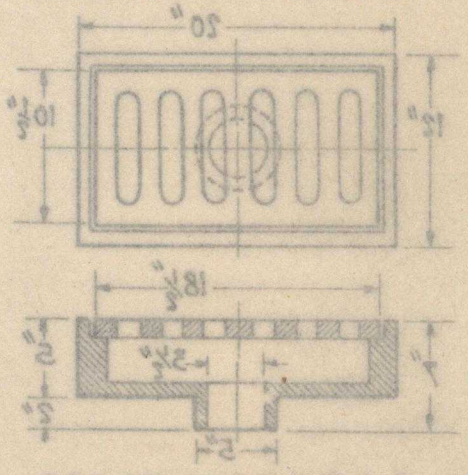


PATTERN No 143
WEIGHT · 400 · LBS.



PATTERN No 141
WEIGHT · 300 · LBS.

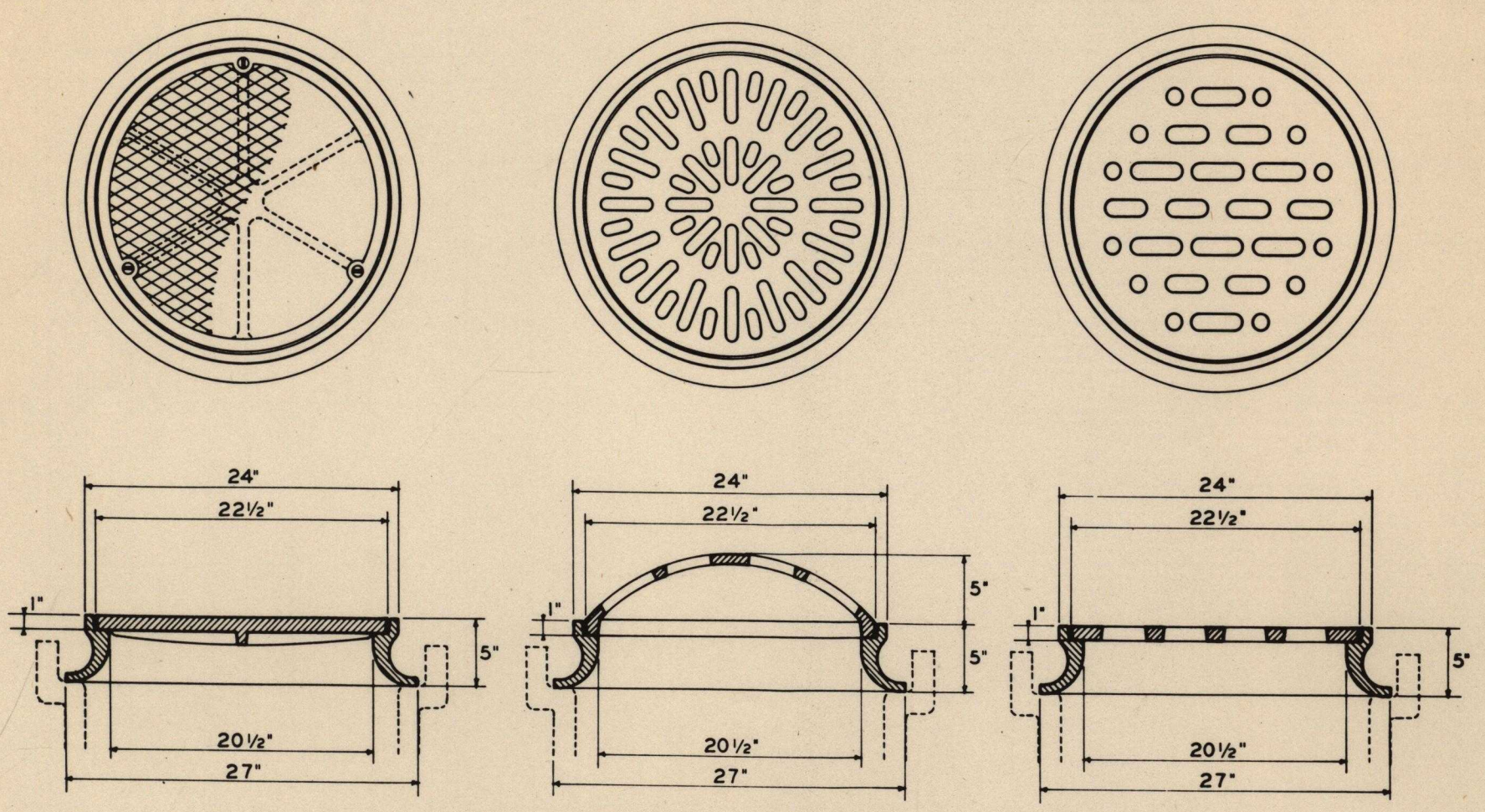
VARIOUS · OUTLET
SIZES · CAN · BE
FURNISHED.



PATTERN No 140
WEIGHT · 225 · LBS.

CAST IRON MEDIUM WEIGHT FRAMES
WITH SOLID COVERS OR GRATINGS FOR 24 INCH SEWER TILE

CAN ALSO BE USED FOR PIT CONSTRUCTION



PATTERN NO. 746
WEIGHT 200 LBS.

PATTERN NO. 748
WEIGHT 200 LBS.

PATTERN NO. 747
WEIGHT 190 LBS.

CONTRACTORS FOUNDRY PHILADELPHIA, PA.

DATA SHEET NO. 132

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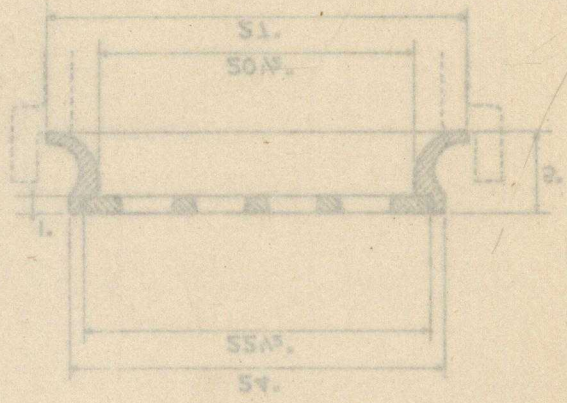
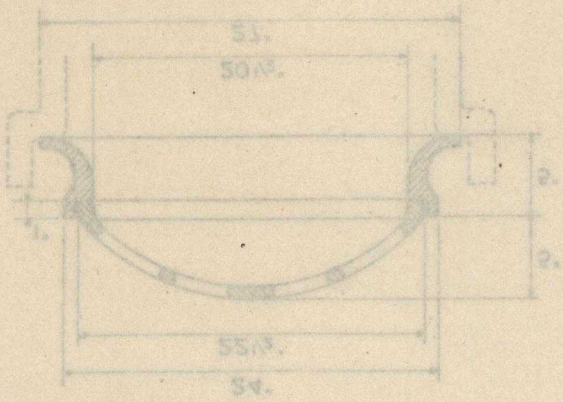
CONTRACTORS FOUNDRY ANNIVERSARY AT

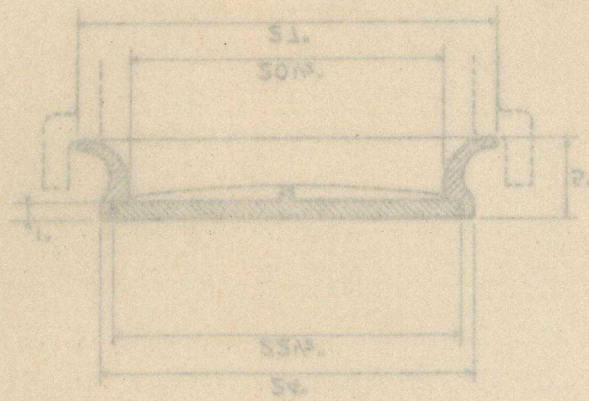
PATTERN NO. 147.
WEIGHT 150 LBS

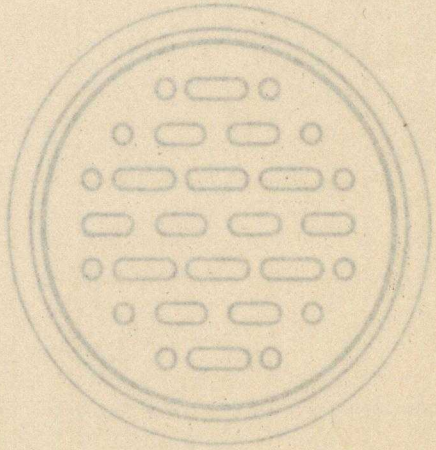


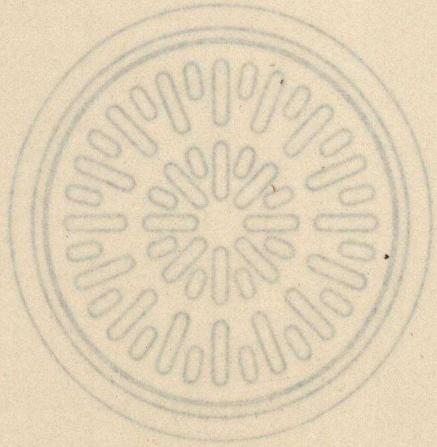
PATTERN NO. 148
WEIGHT 200 LBS

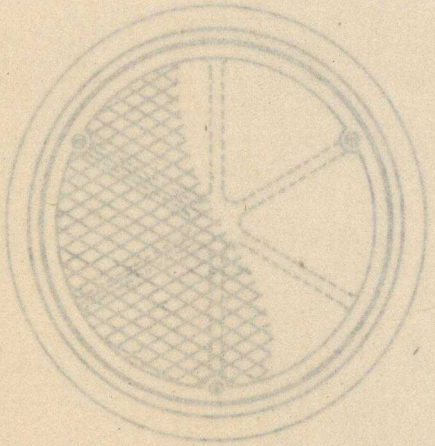


PATTERN NO. 149
WEIGHT 200 LBS







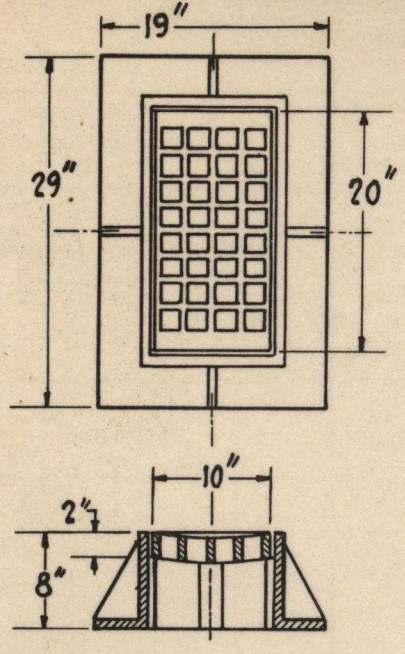


CAN ALSO BE USED FOR PIT CONSTRUCTION

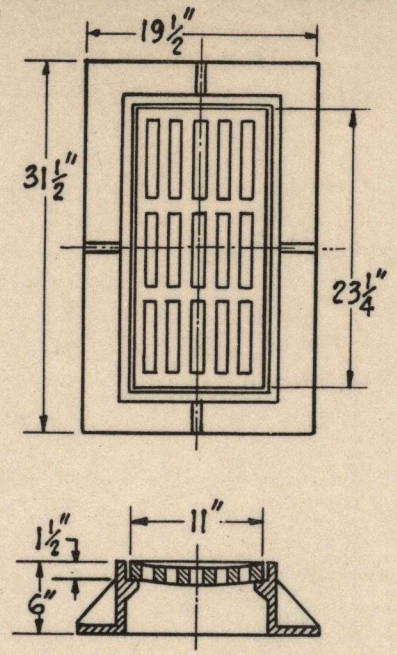
WITH SOLID COVERS OR GRATINGS FOR 54 INCH SEWER TILE

CAST IRON MEDIUM WEIGHT FRAMES

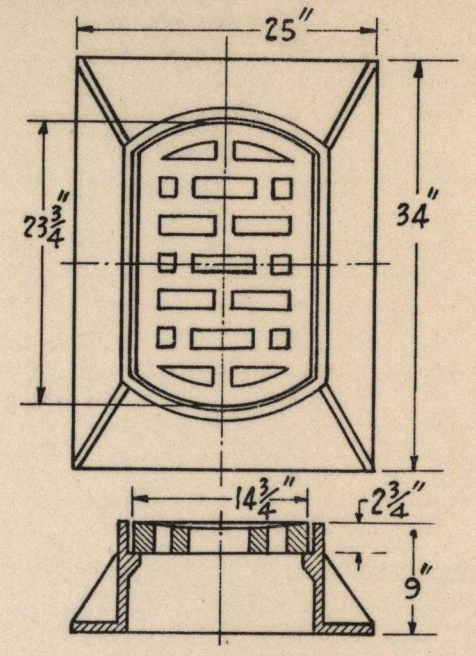
·CAST IRON · PARK & LAWN DRAINS·



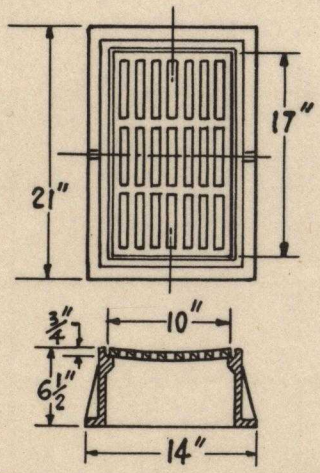
PATTERN Nº 280
WEIGHT · 250 · LBS.



PATTERN Nº 281
WEIGHT · 300 · LBS.

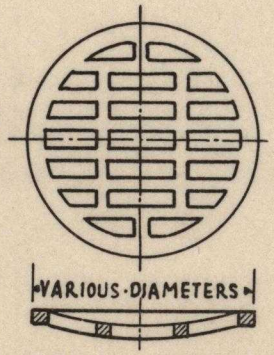


PATTERN Nº 282
WEIGHT · 400 · LBS.



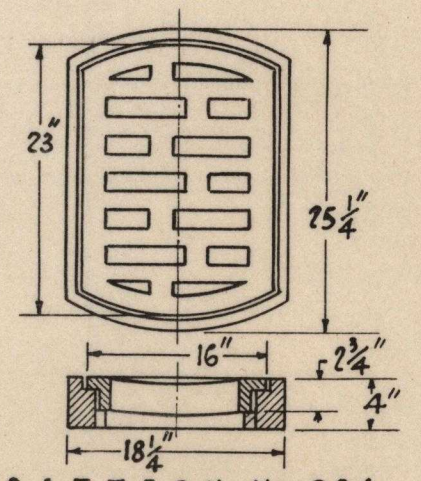
PATTERN Nº 283
WEIGHT · 100 · LBS.

PATTERN Nº 285



WEIGHT VARIES

DISHED OR FLAT GRATINGS SUITABLE FOR MOUNTING IN BELL OF SOIL PIPE, USED IN DRAINING LAWNS, WALKS COURTS ETC. WHEN ORDERING SPECIFY SIZE OF SOIL PIPE.



PATTERN Nº 284
WEIGHT · 225 LBS.

CONTRACTORS FOUNDRY INC., PHILA., PA.

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CAST IRON · PARK & LAWN DRAINS.

PATTERN No 283
WEIGHT · 100 · LBS.

SPECIFY SIZE OF SOIL PIPE LAWNS, WALKS, COURTS ETC. WHEN ORDERING MOUNTING IN LIEU OF SOIL PIPE USED IN DRAINING DISHES OR FLAT GRATINGS SUITABLE FOR

PATTERN No 283 VARIES WEIGHT

PATTERN No 284
WEIGHT · 255 LBS.

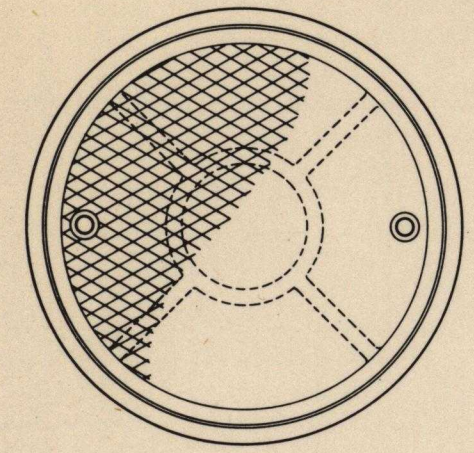
PATTERN No 280
WEIGHT · 250 · LBS.

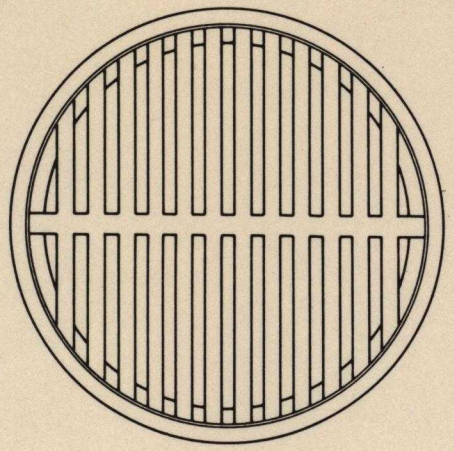
PATTERN No 281
WEIGHT · 300 · LBS.

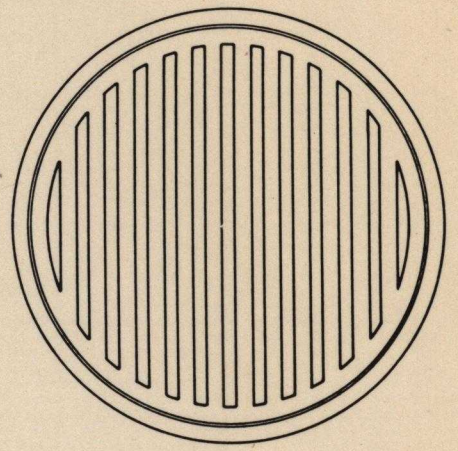
PATTERN No 282
WEIGHT · 400 · LBS.

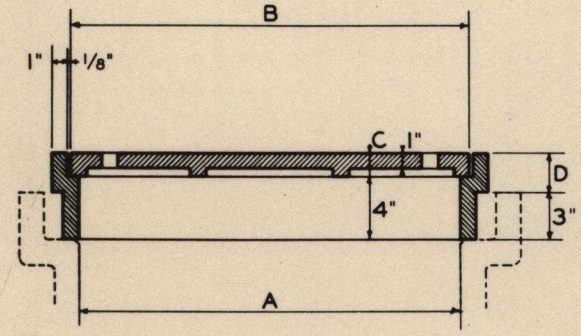
CAST IRON HEAVY WEIGHT FRAMES WITH SOLID COVERS OR GRATINGS FOR 12, 18 AND 24 INCH SEWER TILE

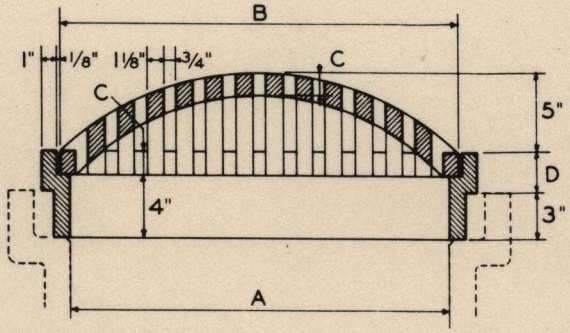
CAN ALSO BE USED FOR SLAB CONSTRUCTION

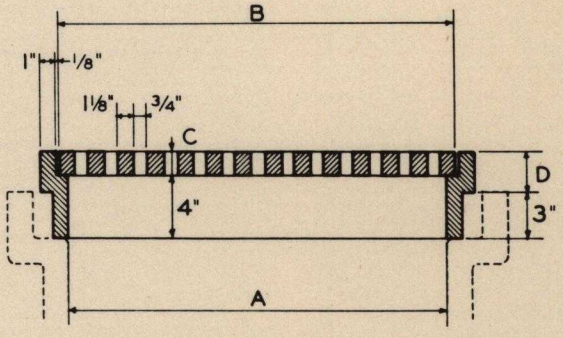












PATTERN NO.	A	B	C	D	WEIGHT
891	12"	13 1/4"	1 1/4"	2 1/4"	115
892	18"	19 1/4"	1 1/2"	2 1/2"	220
893	24"	25 1/4"	1 1/2"	2 1/2"	325

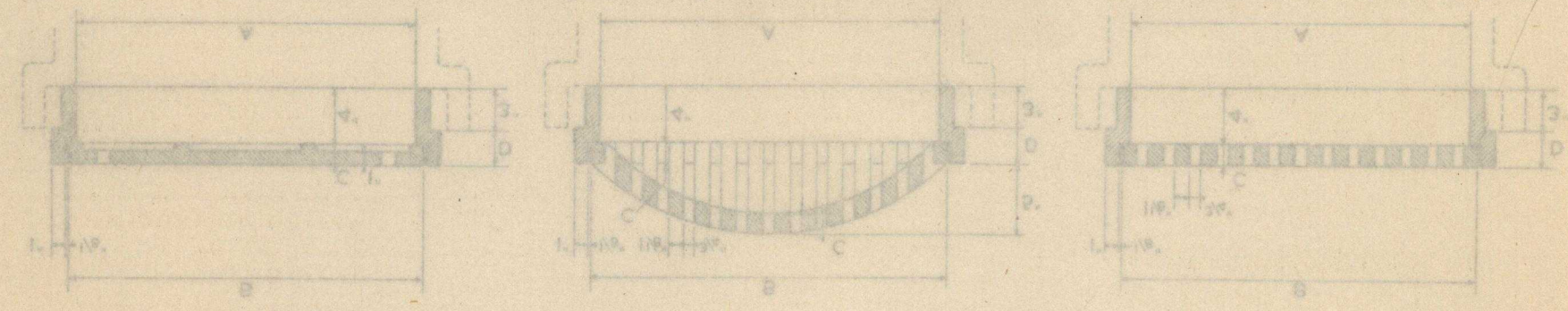
PATTERN NO.	A	B	C	D	WEIGHT
894	12"	13 1/4"	1 1/4"	2 1/4"	115
895	18"	19 1/4"	1 1/2"	2 1/2"	220
896	24"	25 1/4"	1 1/2"	2 1/2"	325

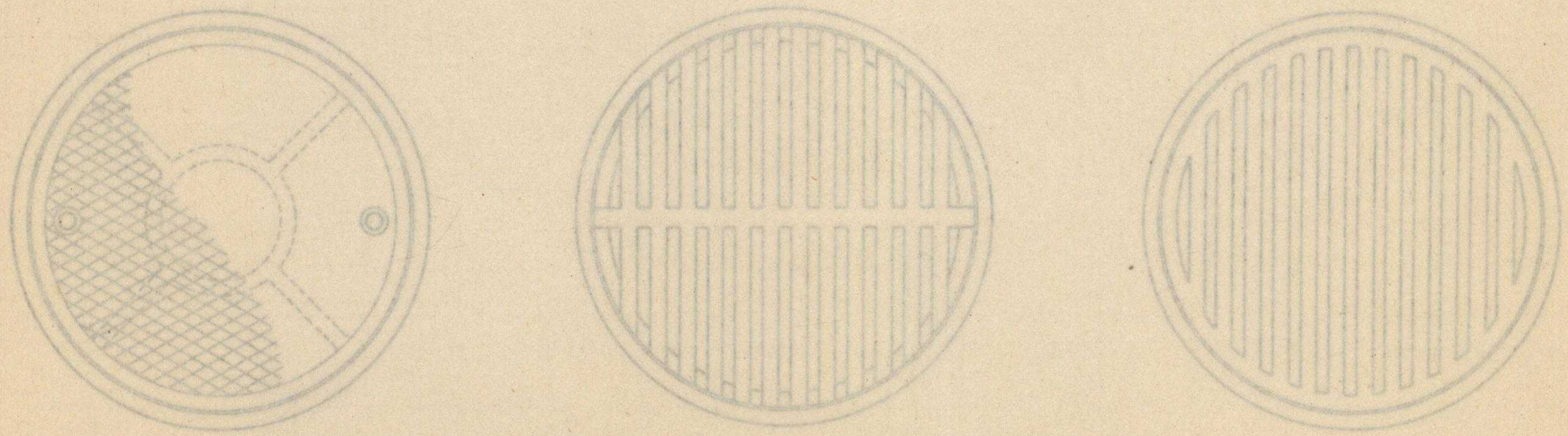
PATTERN NO.	A	B	C	D	WEIGHT
897	12"	13 1/4"	1 1/4"	2 1/4"	100
898	18"	19 1/4"	1 1/2"	2 1/2"	190
899	24"	25 1/4"	1 1/2"	2 1/2"	275

NO PATTERN	A	B	C	D	WEIGHT
881	15.	13½.	1½.	5½.	112
885	18.	16½.	1½.	5½.	550
889	24.	22½.	1½.	5½.	252

NO PATTERN	A	B	C	D	WEIGHT
884	15.	13½.	1½.	5½.	112
888	18.	16½.	1½.	5½.	550
892	24.	22½.	1½.	5½.	252

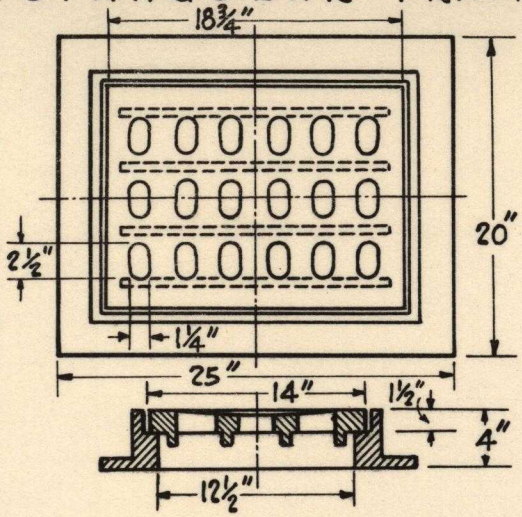
NO PATTERN	A	B	C	D	WEIGHT
883	15.	13½.	1½.	5½.	100
887	18.	16½.	1½.	5½.	160
891	24.	22½.	1½.	5½.	575



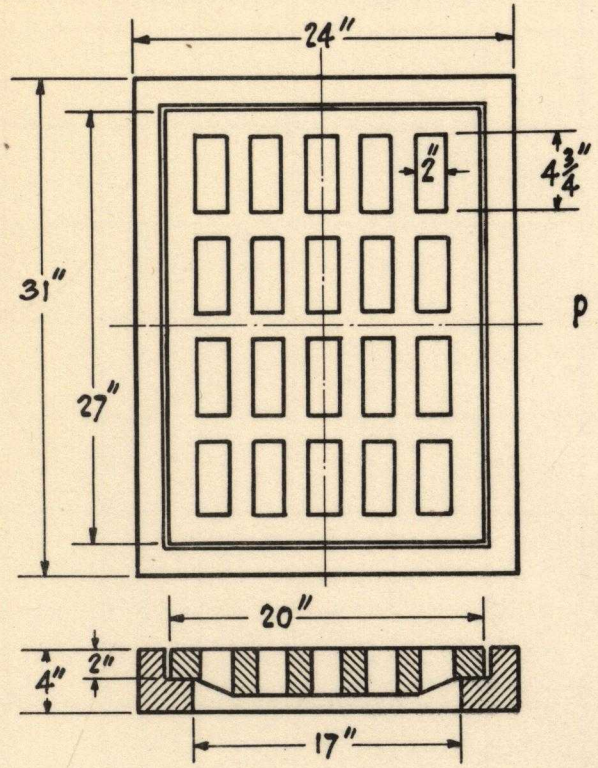


CAST IRON HEAVY WEIGHT FRAMES WITH SOLID COVERS
OR GRATINGS FOR 15, 18 AND 24 INCH SEWER TILE
CAN ALSO BE USED FOR SLAB CONSTRUCTION

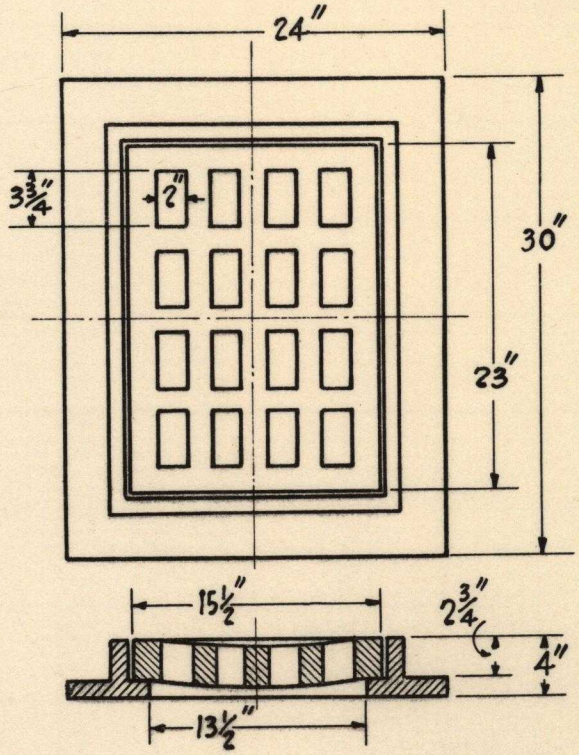
·CAST IRON· RECTANGULAR FRAMES & GRATES·



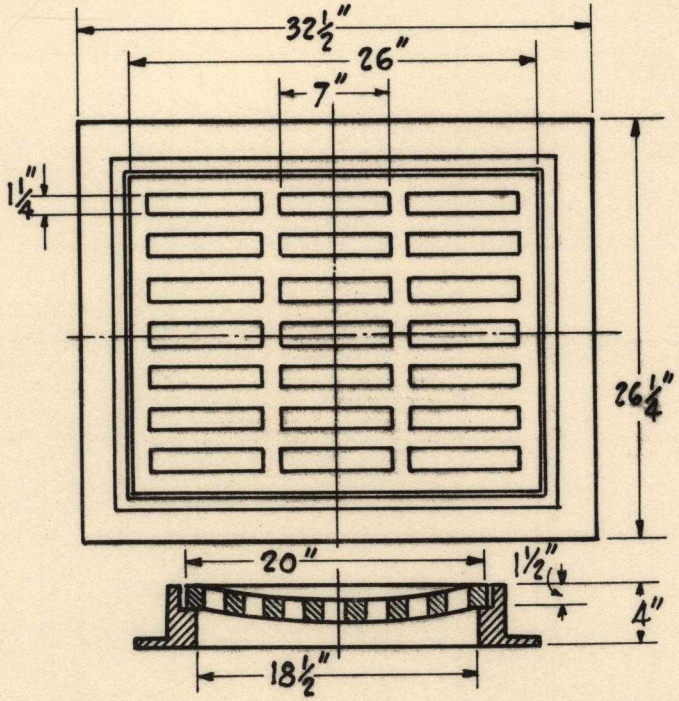
PATTERN Nº 262 WEIGHT 225·LBS.



PATTERN Nº 263
WEIGHT 450·LBS.



PATTERN Nº 260
WEIGHT 300·LBS.

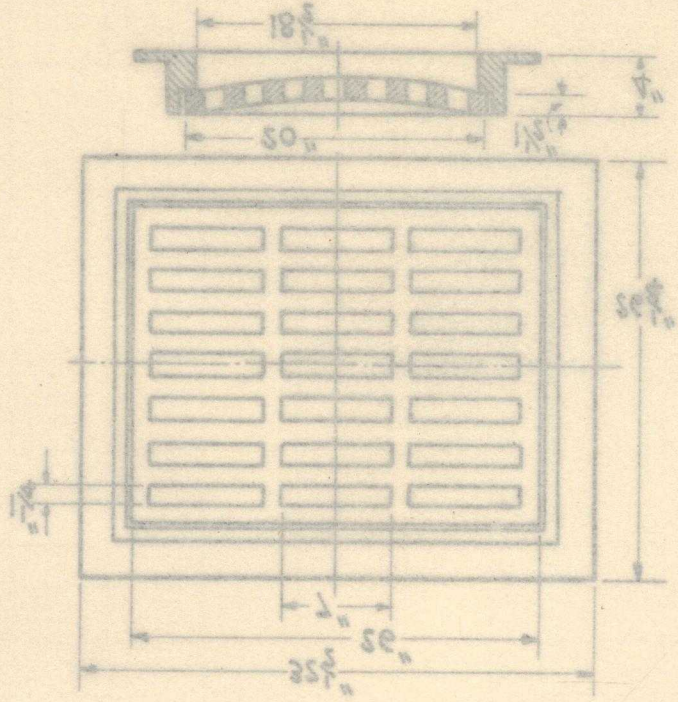


PATTERN Nº 261 WEIGHT 350·LBS.

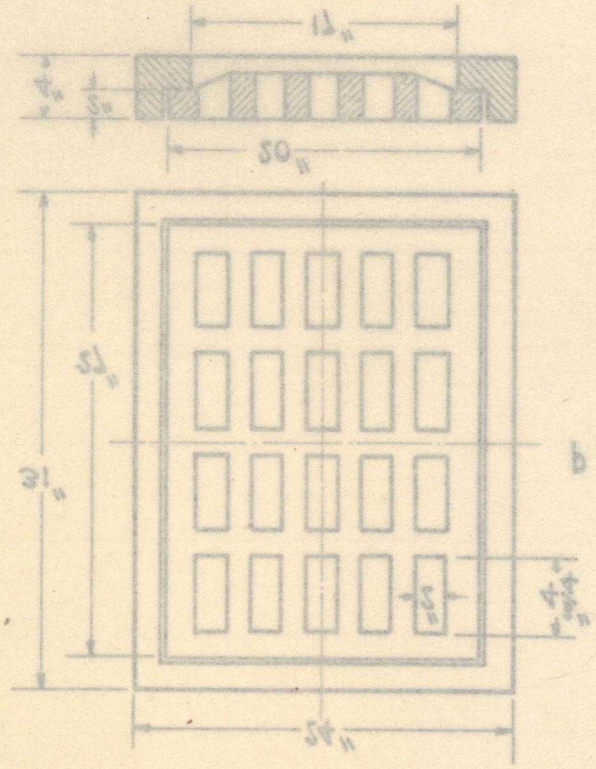
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 134

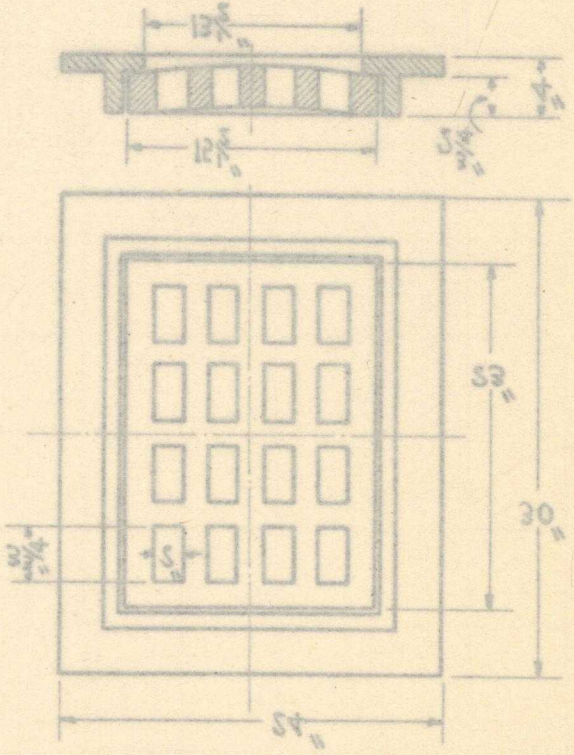
PATTERN No 261 WEIGHT 350·LBS.



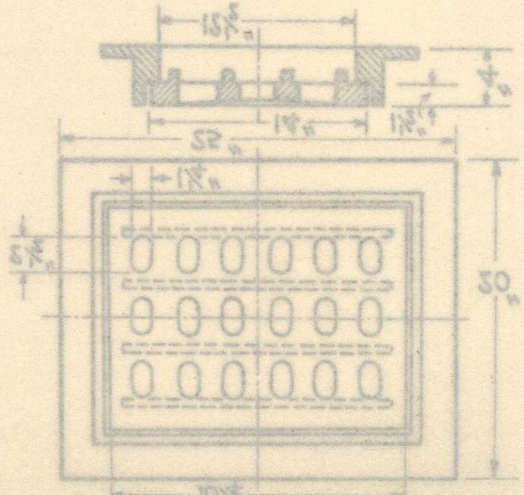
PATTERN No 263 WEIGHT 450·LBS.



PATTERN No 260 WEIGHT 300·LBS.



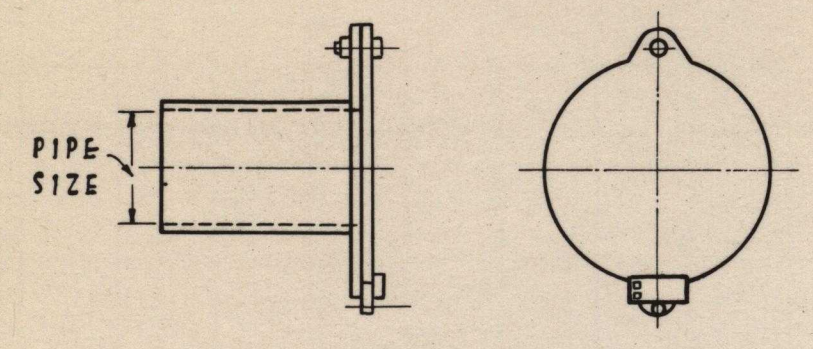
PATTERN No 265 WEIGHT 555·LBS.



·CAST IRON· RECTANGULAR FRAMES & GRATES·

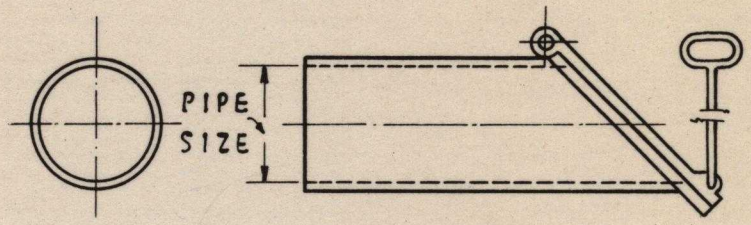
·CAST IRON · SHEAR GATES · CHECK · SLIDE & LIFT VALVES·

SHEAR · GATE



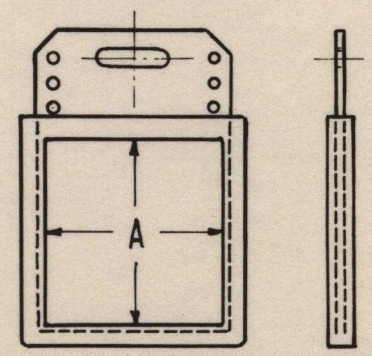
PATTERN Nº	PIPE·SIZE	WEIGHT
457	6	60
458	8	100
459	10	150
460	12	200
461	18	250

CHECK · VALVE



PATTERN Nº	PIPE·SIZE	WEIGHT
462	7	40
463	8	65
464	10	150
465	12	200
466	15	250

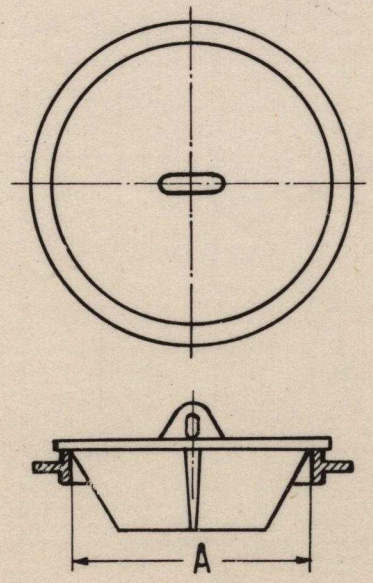
SLIDE · VALVE



SLIDE·GALVANIZED
·STEEL·

PATTERN Nº	A	WEIGHT
467	6	20
468	12	75
469	18	150
470	24	250

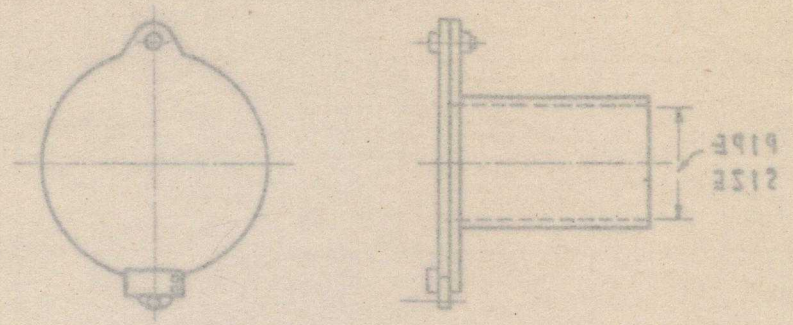
LIFT · VALVE



PATTERN Nº	A	WEIGHT
471	4	25
472	6	40
473	8	60
474	10	75
475	12	100
476	14	125

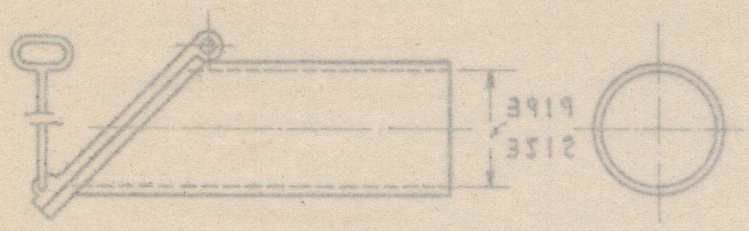
CAST IRON · SHEAR GATES · CHECK · SLIDE & LIFT VALVES

SHEAR GATE



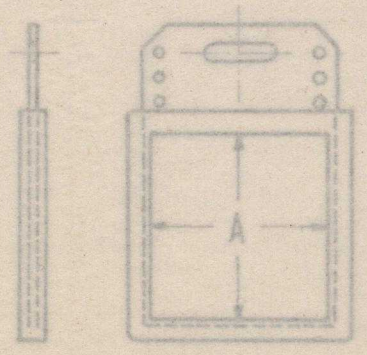
PATTERN Nº	PIPE-SIZE	WEIGHT
457	6	60
458	8	100
459	10	150
460	12	200
461	18	250

CHECK · VALVE



PATTERN Nº	PIPE-SIZE	WEIGHT
462	7	40
463	8	65
464	10	150
465	12	200
466	15	250

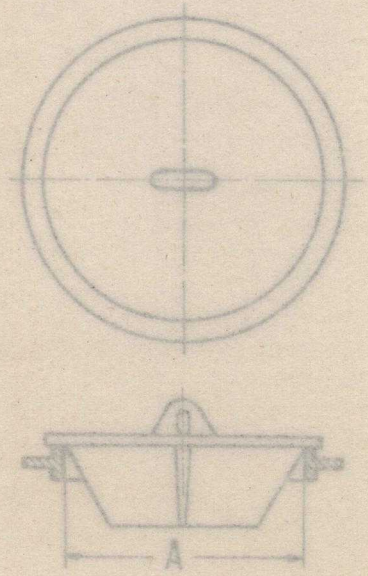
SLIDE · VALVE



SLIDE · GALVANIZED
· STEEL ·

PATTERN Nº	A	WEIGHT
467	6	20
468	12	75
469	18	150
470	24	250

LIFT · VALVE

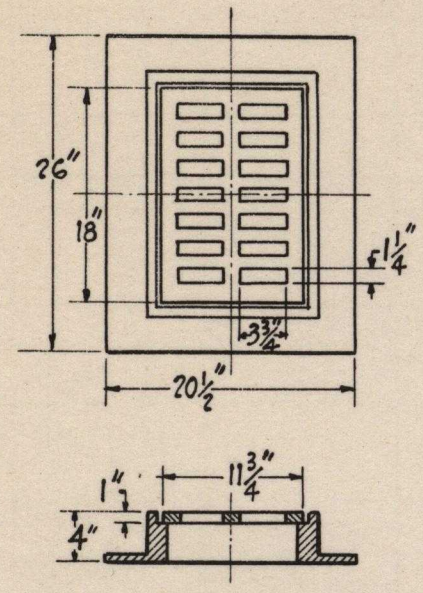


PATTERN Nº	A	WEIGHT
471	4	25
472	6	40
473	8	60
474	10	75
475	12	100
476	14	125

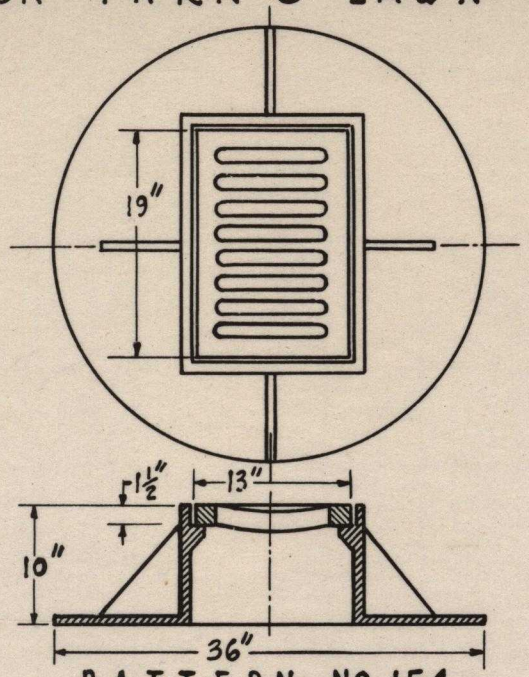
CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET Nº 135

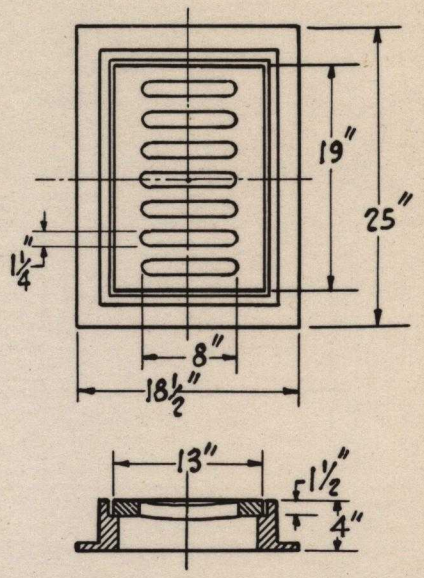
·CAST IRON · PARK & LAWN DRAINS·



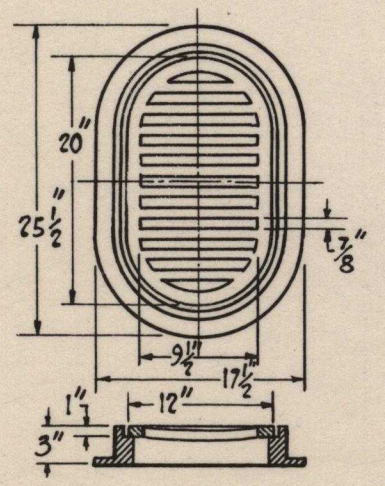
PATTERN Nº 153
WEIGHT · 175 · LBS.



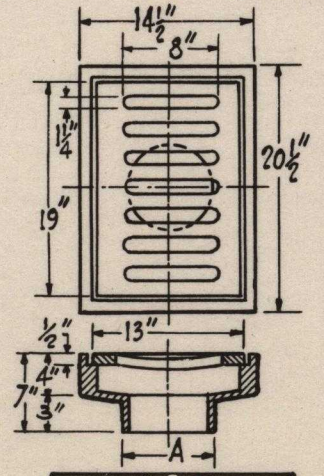
PATTERN Nº 154
WEIGHT · 375 · LBS.



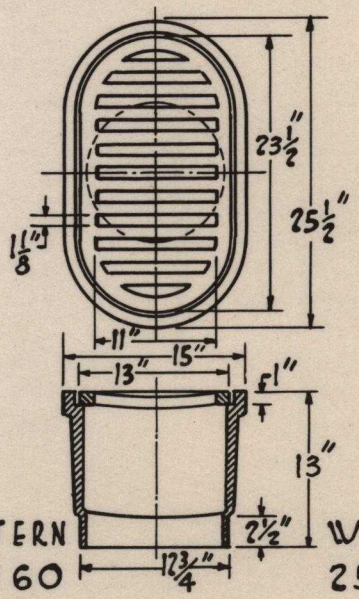
PATTERN Nº 155
WEIGHT · 200 · LBS.



PATTERN Nº 156
WEIGHT · 150 · LBS.



PATTERN Nº	A	WEIGHT
157	7	200
158	9	220
159	11	240

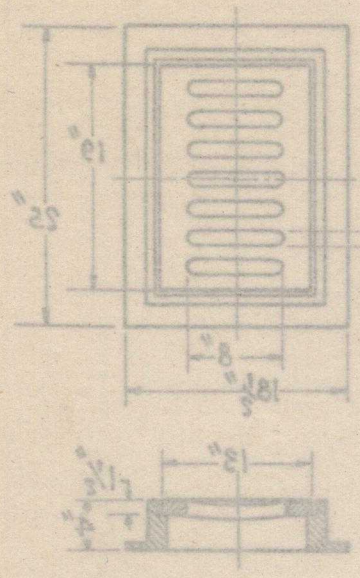


PATTERN Nº 160
WEIGHT 250 · LBS.

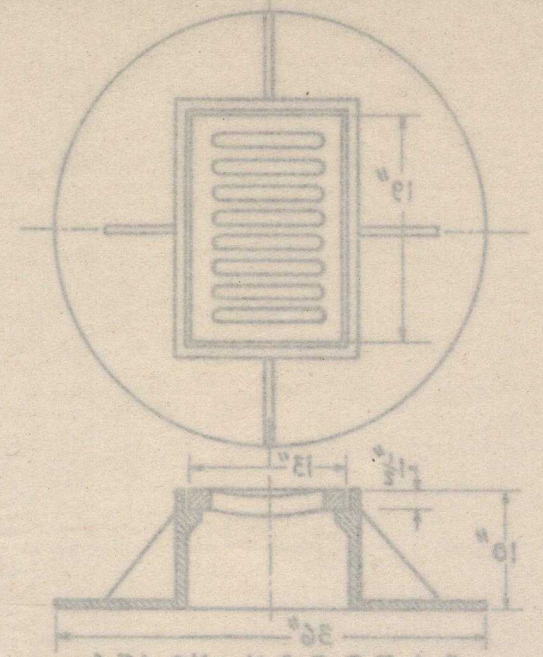
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 137

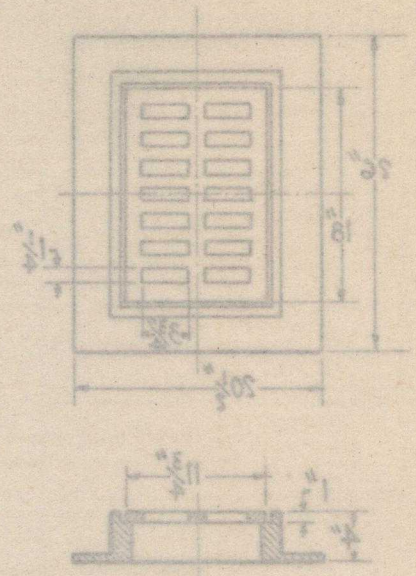
CAST IRON PARK & LAWN DRAINS



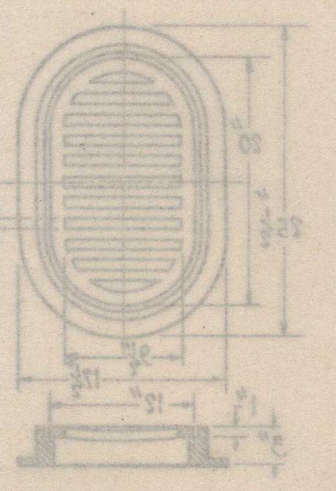
PATTERN Nº 153
WEIGHT · 175 LBS.



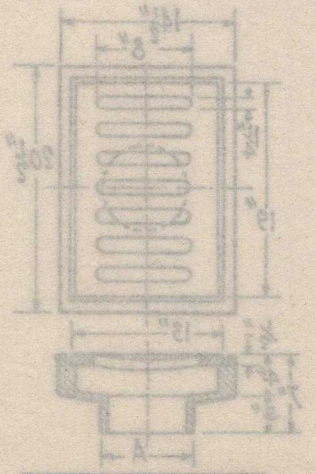
PATTERN Nº 154
WEIGHT · 375 LBS.



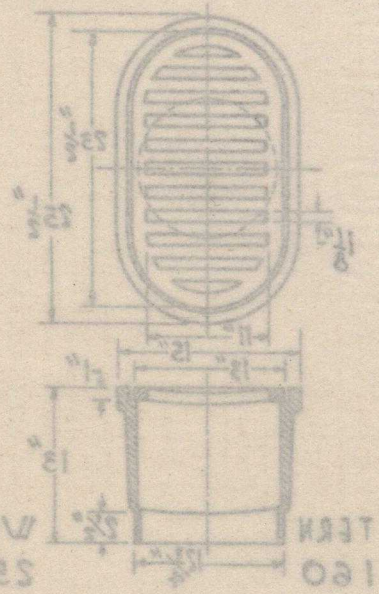
PATTERN Nº 155
WEIGHT · 200 LBS.



PATTERN Nº 156
WEIGHT · 150 LBS.



PATTERN Nº	A	WEIGHT
157	7	200
158	9	220
159	11	240



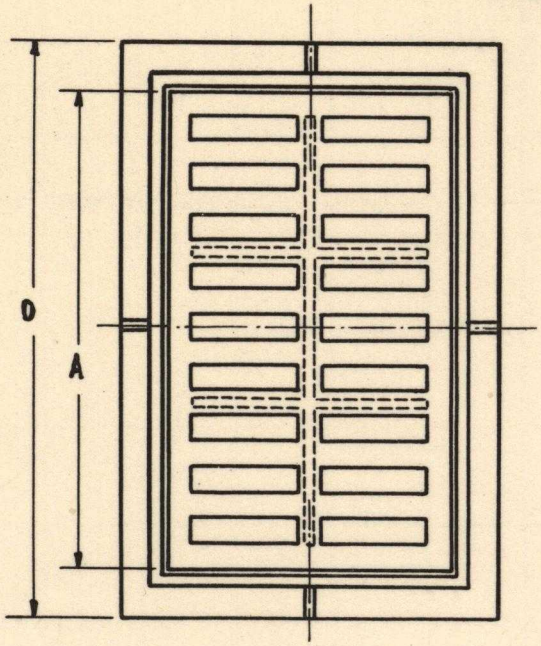
PATTERN Nº 160
WEIGHT 250 LBS.

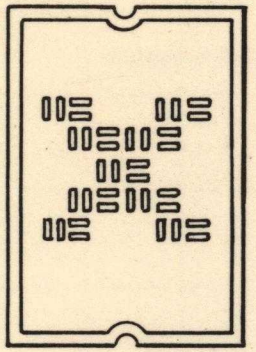
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 137

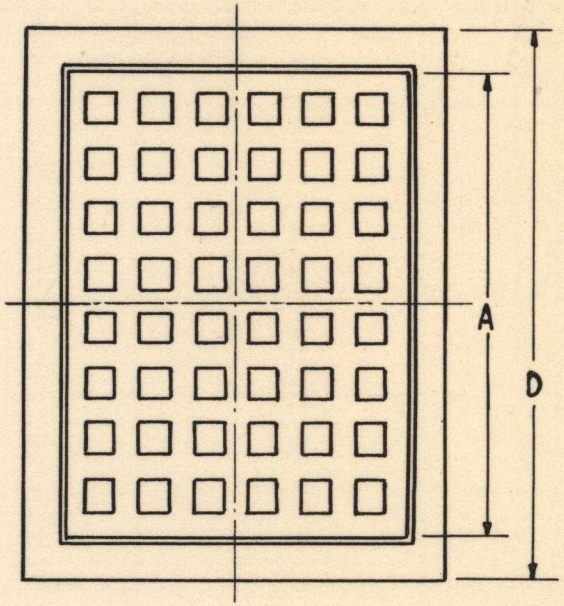
·CAST IRON·FRAMES·WITH·GRATING OR SOLID COVERS·

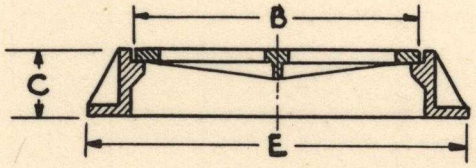
·MEDIUMWEIGHT·RECTANGULAR·

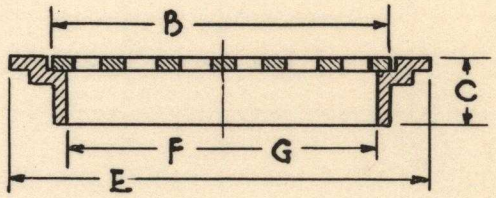




SOLID·COVERS
FURNISHED
WHEN SPECIFIED.







PATTERN Nº	A	B	C	D	E	WEIGHT
242	24	12	4	30	18	175
243	24	18	4	30	24	275
244	30	18	4	36	24	300
245	36	24	4½	43	31	550
246	48	24	4½	55	31	650
247	48	30	4½	56	38	800

PATTERN Nº	A	B	C	D	E	F	G	WEIGHT
298	26	20	4½	30	24	18	24	300
299	32	26	4½	37	31	24	30	450
300	38	26	4½	43	31	24	36	500
301	50	26	4½	55	31	24	48	625
302	50	38	4½	55	43	36	48	950

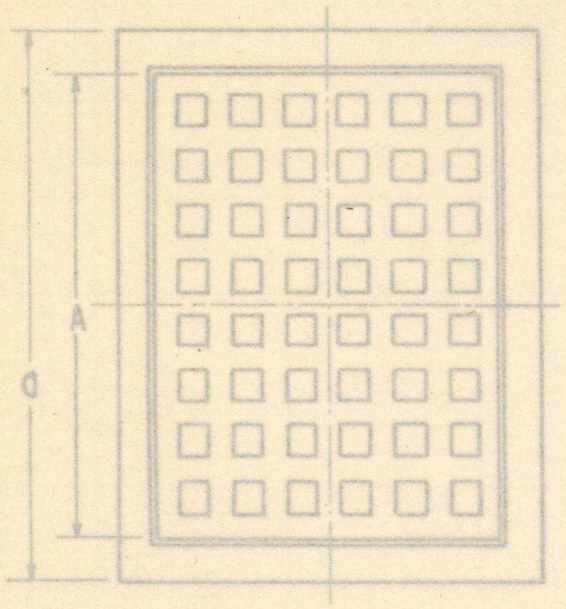
CONTRACTORS FOUNDRY INC., PHILA., PA.

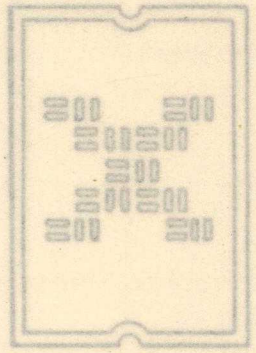
DATA SHEET Nº 138

REVISED 3/23/40

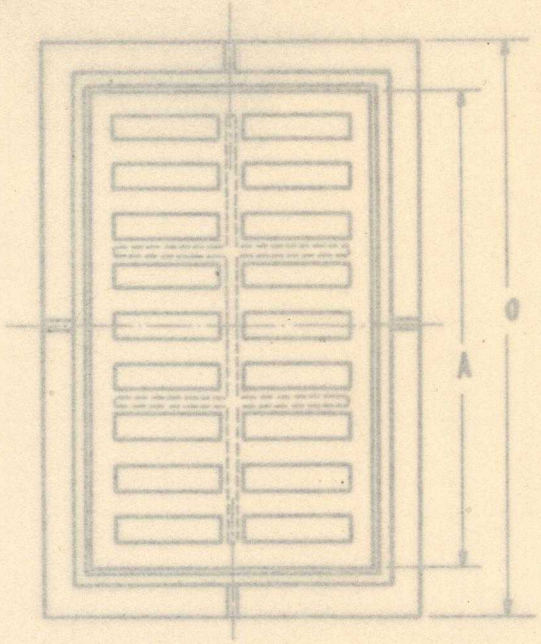
CAST IRON FRAMES WITH GRATING OR SOLID COVERS

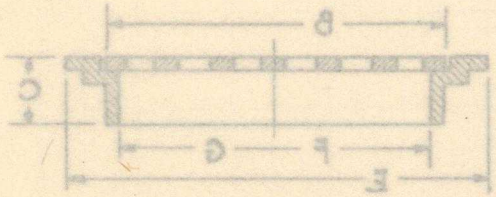
MEDIUM WEIGHT RECTANGULAR

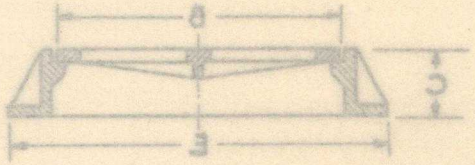




SOLID COVERS FURNISHED WHEN SPECIFIED





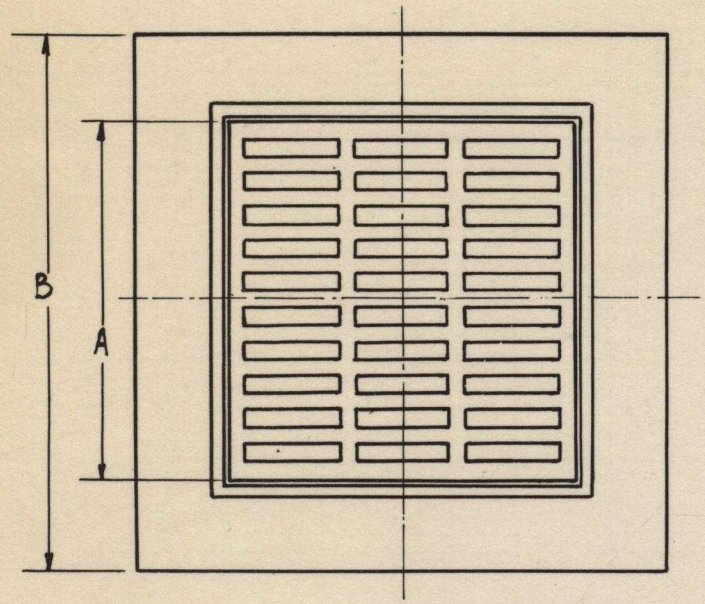


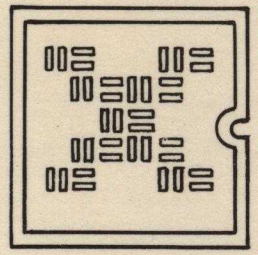
PATTERN Nº	A	B	C	D	E	F	G	WEIGHT
298	26	20	4½	30	24	18	24	300
299	32	26	4½	37	31	24	30	450
300	38	26	4½	43	31	24	36	500
301	50	26	4½	55	31	24	48	625
302	50	38	4½	55	43	36	48	950

PATTERN Nº	A	B	C	D	E	WEIGHT
242	24	12	4	30	18	175
243	24	18	4	30	24	275
244	30	18	4	36	24	300
245	36	24	4½	43	31	550
246	48	24	4½	55	31	650
247	48	30	4½	56	38	800

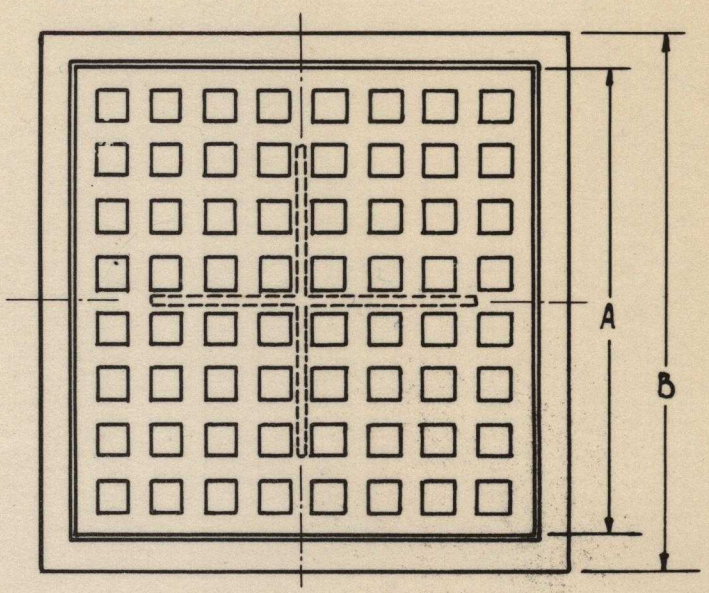
·CAST IRON·FRAMES·WITH·GRATING OR SOLID COVERS·

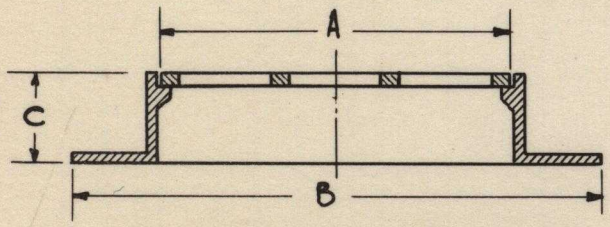
·MEDIUMWEIGHT·SQUARE·



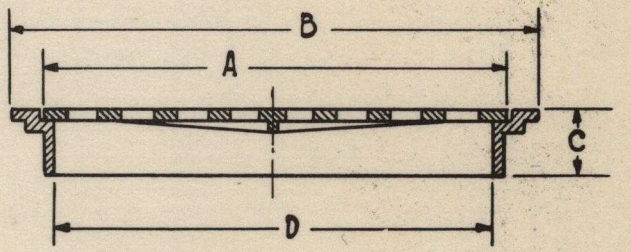


SOLID·COVERS
FURNISHED
WHEN SPECIFIED.



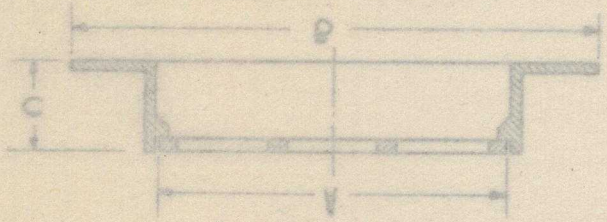


PATTERN Nº	A	B	C	WEIGHT
123	12	18½	4	50
124	18	27	4	125
125	24	36	4	250
126	30	42	6	375
127	36	48	6	600

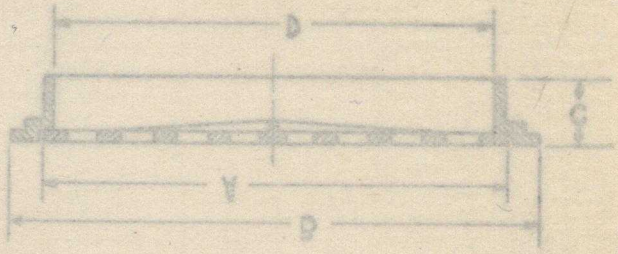


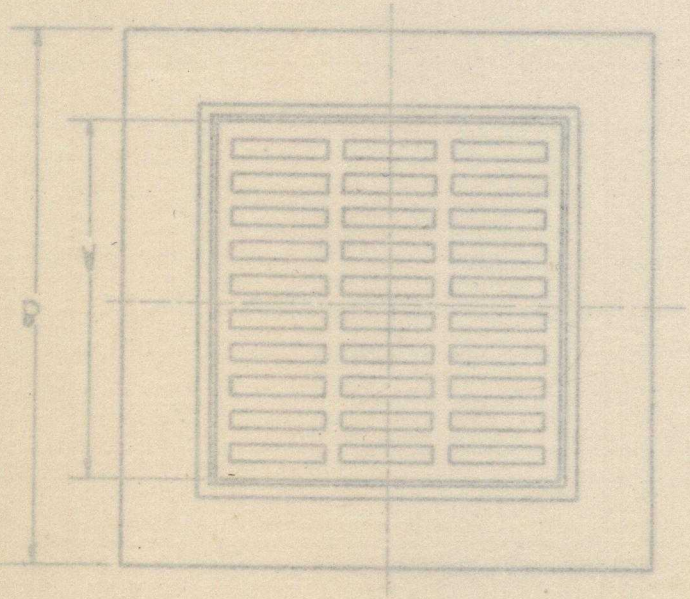
PATTERN Nº	A	B	C	D	WEIGHT
393	20	24	4½	18	125
394	26	31	4½	24	300
395	32	37	4½	30	500
396	38	43	4½	36	700

PATTERN No	A	B	C	WEIGHT
153	15	18½	4	50
154	18	23	4	125
155	24	36	4	250
156	30	42	6	375
157	36	48	6	500

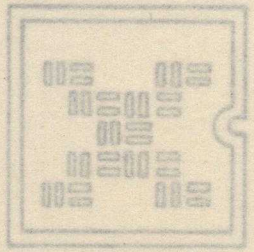


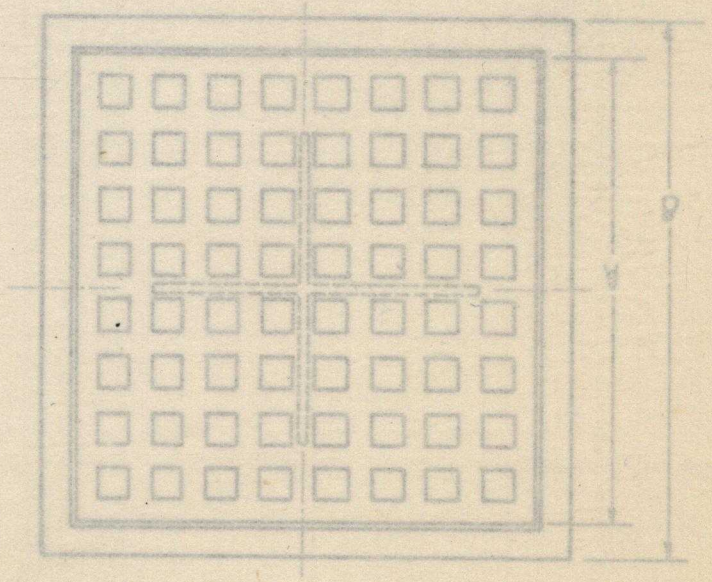
PATTERN No	A	B	C	D	WEIGHT
396	20	24	4½	18	125
397	25	31	4½	24	300
398	32	37	4½	30	500
399	38	43	4½	36	700





WHEN SPECIFIED
FURNISHED
SOLID-COVERS

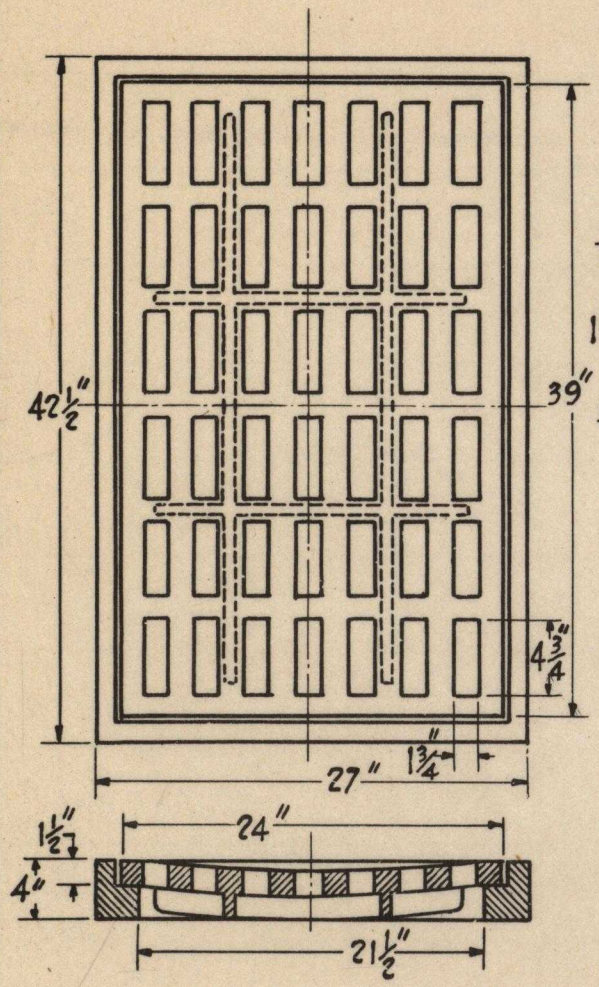




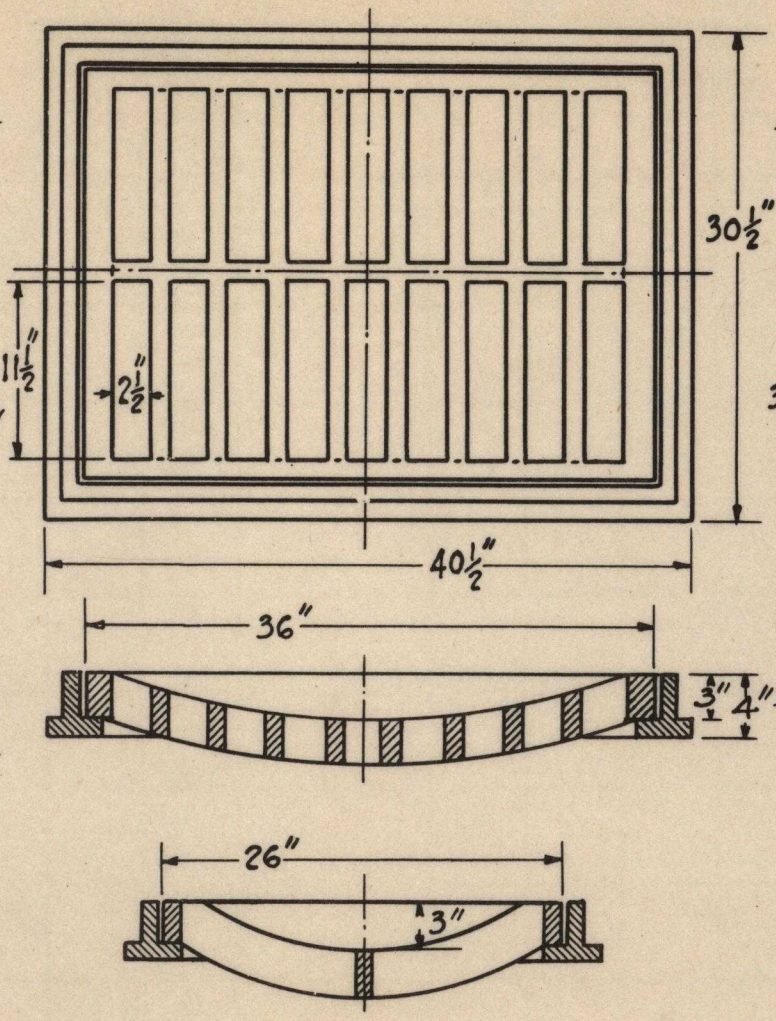
·CAST IRON·FRAMES·WITH·GRATING OR SOLID COVERS·

·MEDIUMWEIGHT·SQUARE·

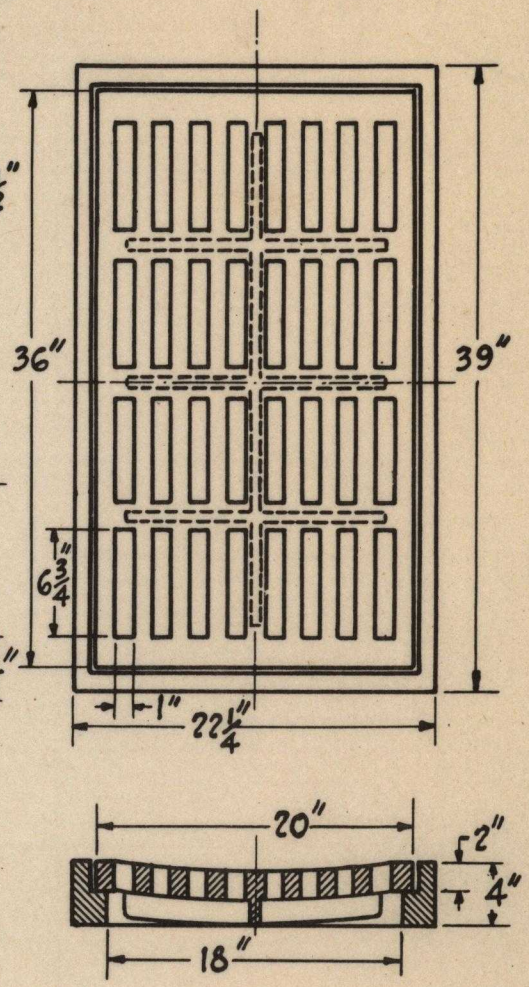
·CAST IRON · LARGE RECTANGULAR FRAMES & GRATES·



PATTERN Nº175
WEIGHT 750·LBS.



PATTERN Nº173
WEIGHT 650·LBS.



PATTERN Nº174
WEIGHT 450·LBS.

CONTRACTORS FOUNDRY INC., PHILA., PA

DATA SHEET Nº141

·CAST IRON· LARGE RECTANGULAR FRAMES & GRATES·

PATTERN No 14

WEIGHT 450·LBS.

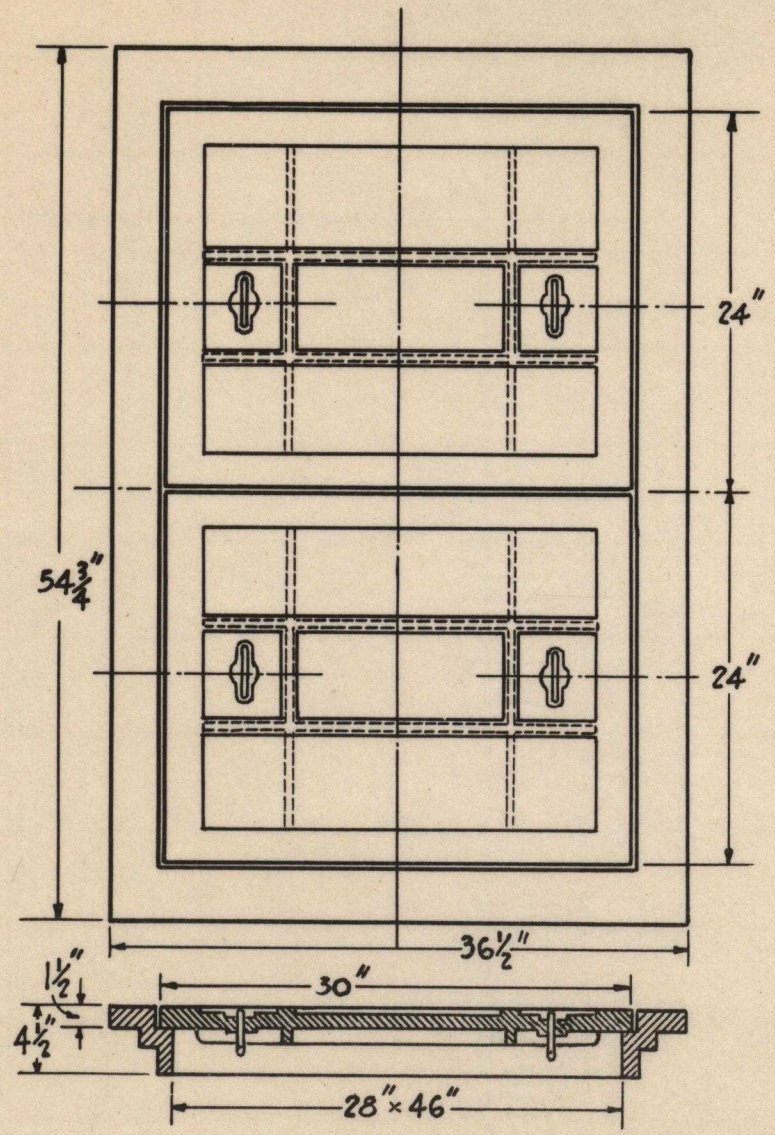
PATTERN No 13

WEIGHT 650·LBS.

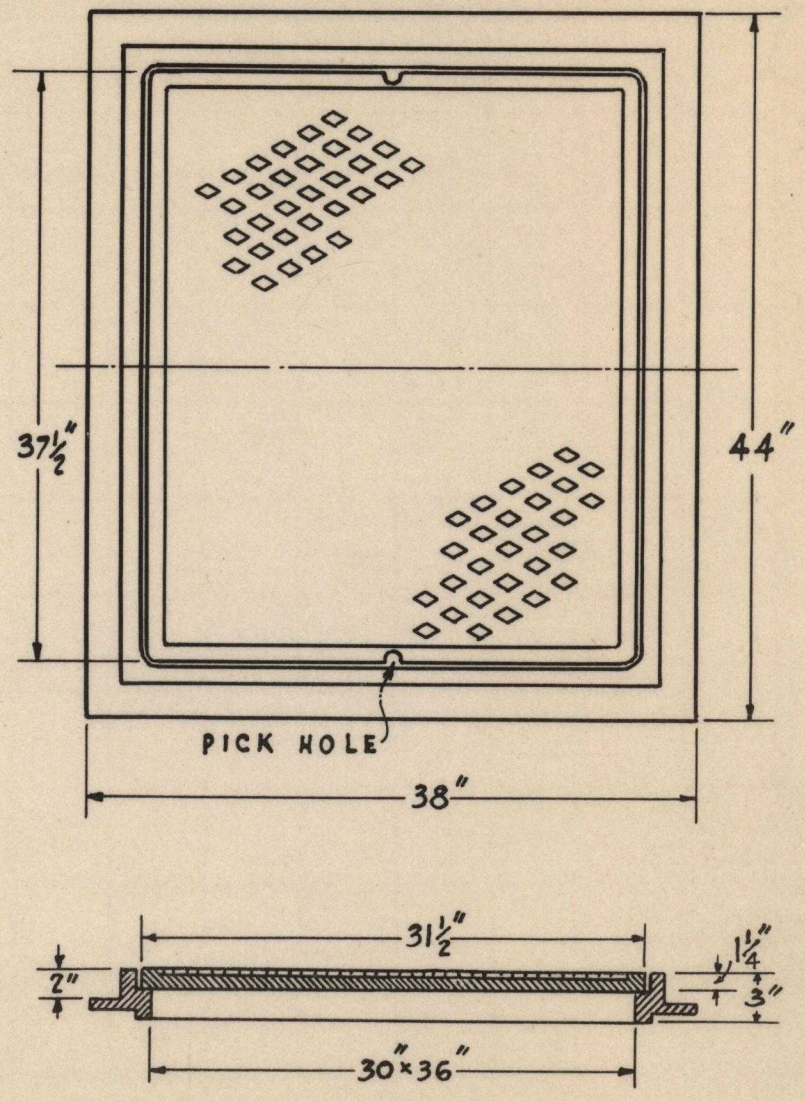
PATTERN No 12

WEIGHT 250·LBS.

·CAST IRON · LARGE VAULT FRAMES & COVERS·



PATTERN Nº188
WEIGHT 900·LBS.



PATTERN Nº189
WEIGHT 650·LBS.

CONTRACTORS FOUNDRY INC., PHILA., PA.

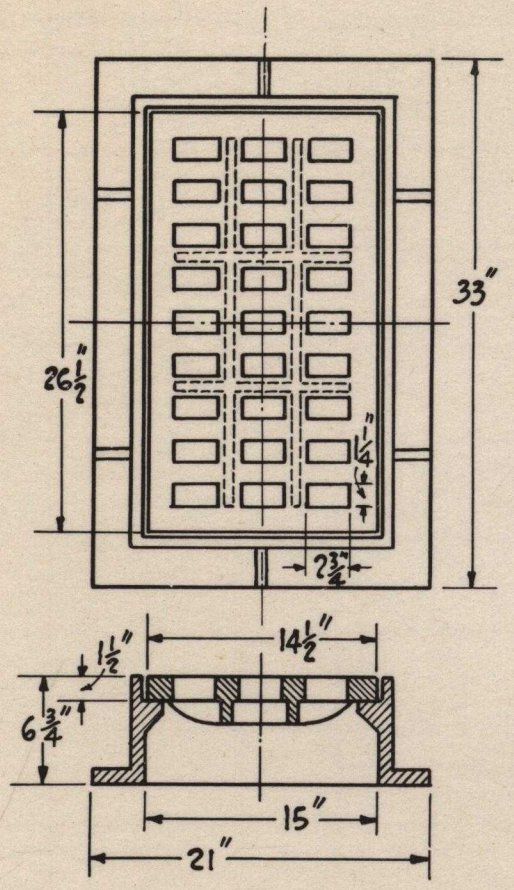
DATA SHEET Nº 142

PATTERN No 189
WEIGHT 650 LBS.

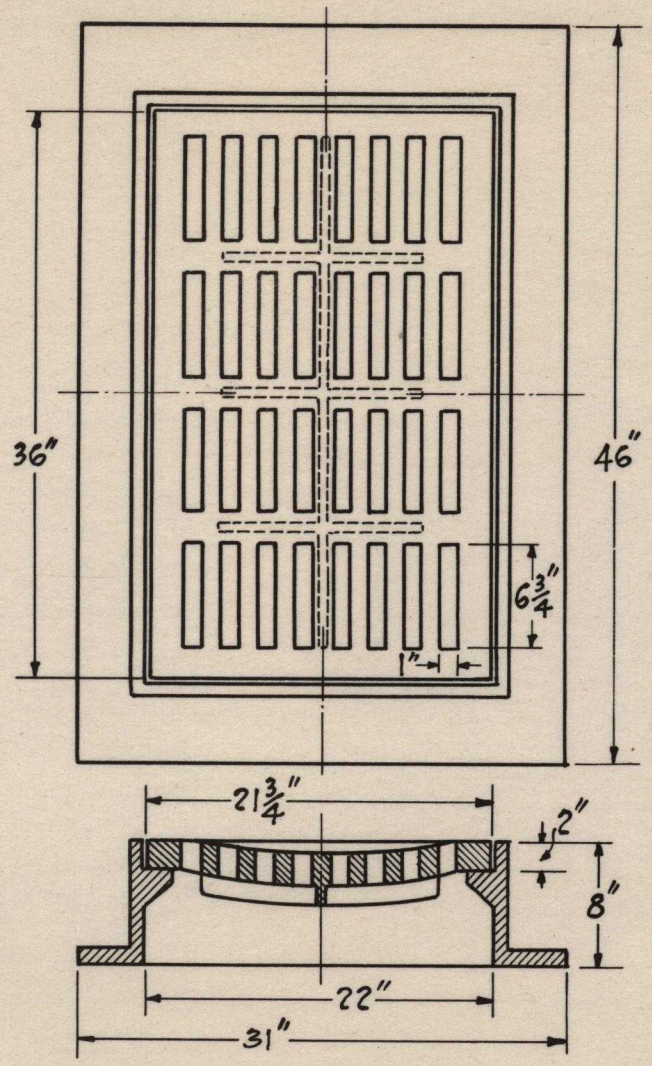
PATTERN No 188
WEIGHT 900 LBS.

·CAST IRON · LARGE VAULT FRAMES & COVERS·

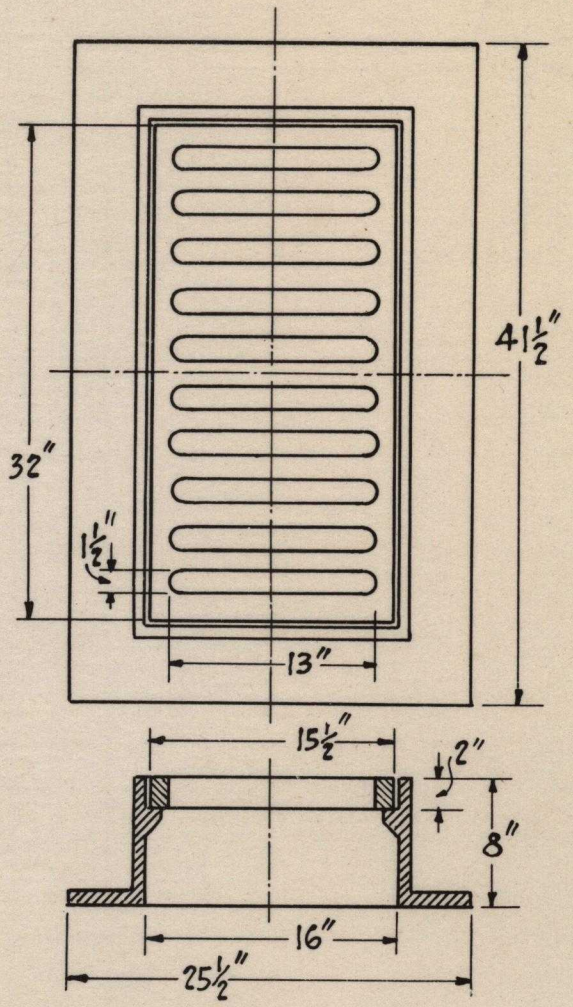
·CAST IRON· RECTANGULAR FRAMES & GRATINGS·



PATTERN Nº 178
WEIGHT·400·LBS.



PATTERN Nº 176
WEIGHT·600·LBS.

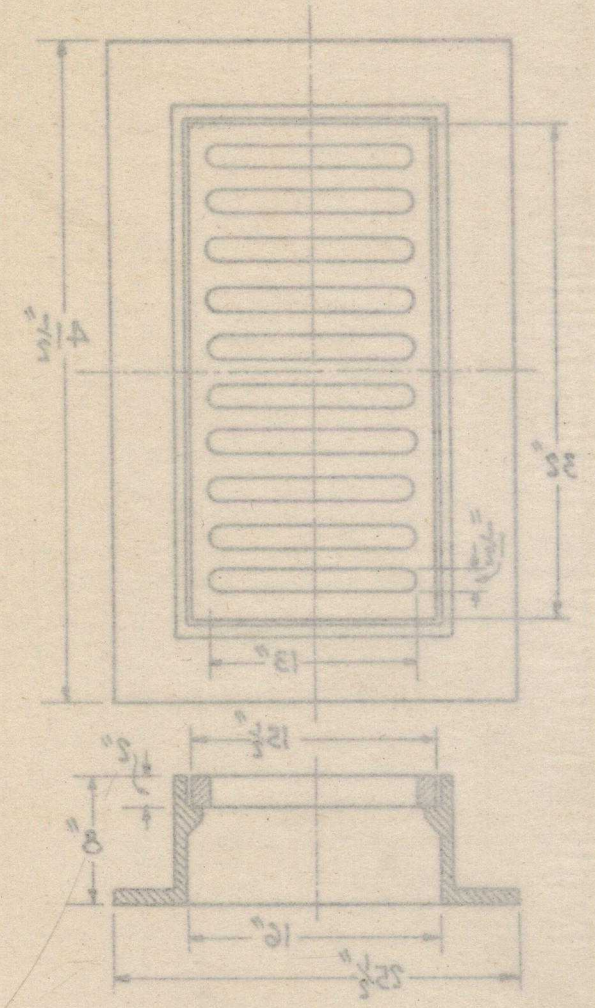


PATTERN Nº 177
WEIGHT·450·LBS.

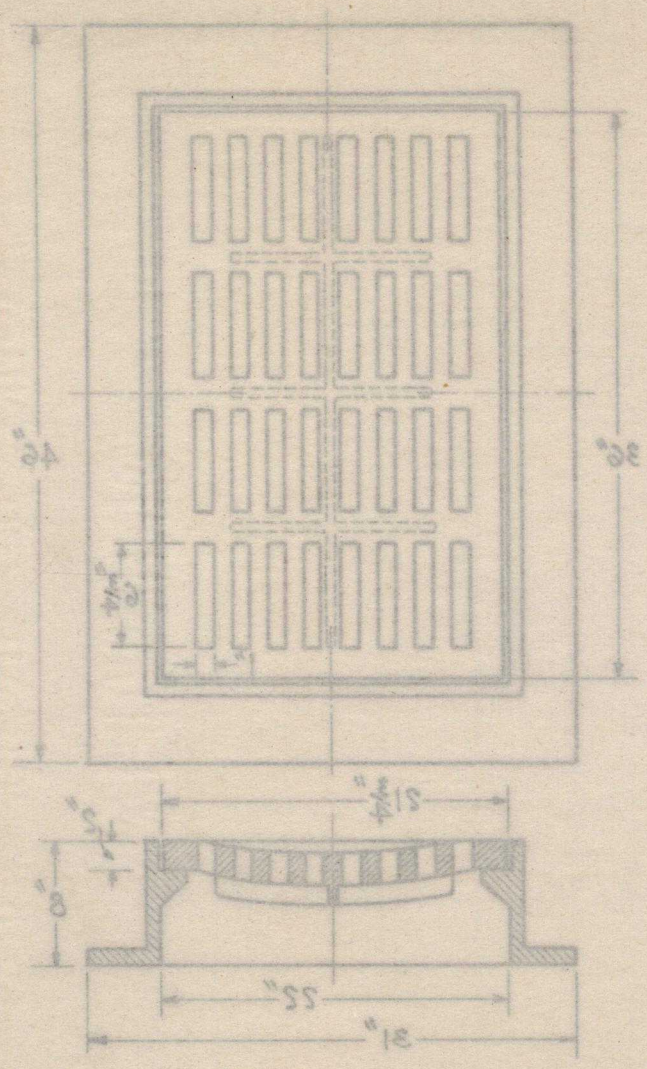
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 143

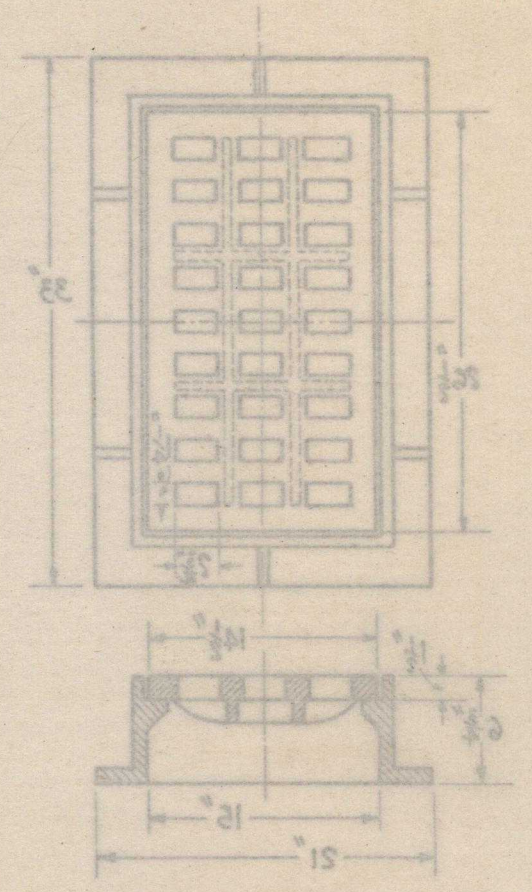
CAST IRON RECTANGULAR FRAMES & GRATINGS



PATTERN No 177
WEIGHT 450 LBS.



PATTERN No 176
WEIGHT 600 LBS.



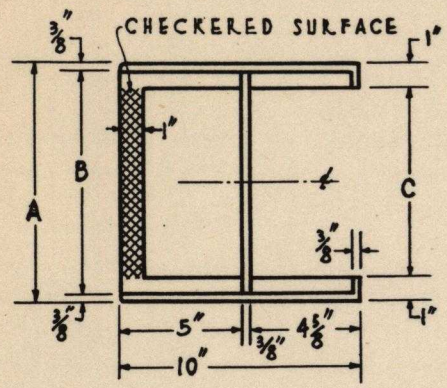
PATTERN No 178
WEIGHT 400 LBS.

CONTRACTORS FOUNDRY INC., PHILA., PA.

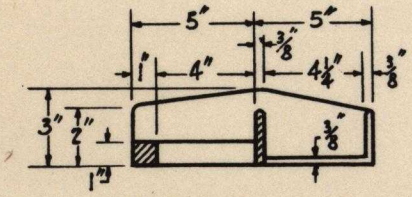
DATA SHEET No 143

MANHOLE STEPS & LADDER BARS

CAST · IRON



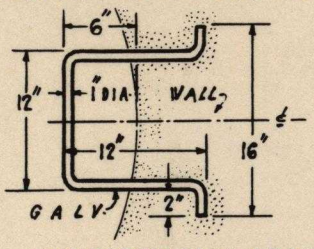
PLAN



SECTION

PATTERN Nº	A	B	C	WEIGHT
6	10	9¼	8	11 LBS.
800	7	6¼	5	9½ LBS.

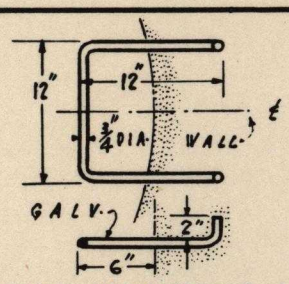
COMMERCIAL · WROUGHT · IRON



[VETERANS ADMINISTRATION STANDARD.]

PATTERN Nº 8

WEIGHT · 9 · LBS.

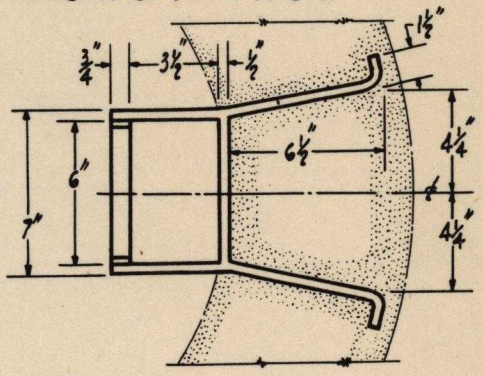


[TREASURY DEPARTMENT STANDARD]

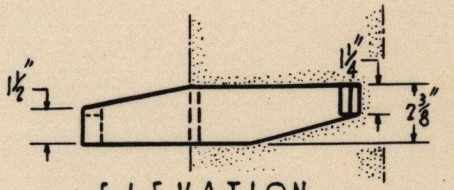
PATTERN Nº 9

WEIGHT · 6 · LBS.

CAST · IRON



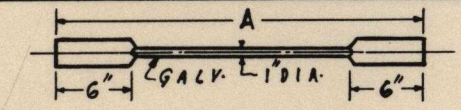
PLAN



ELEVATION

PATTERN Nº 819

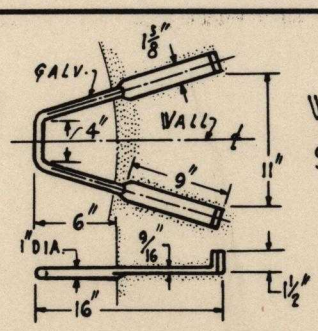
WEIGHT · 10 · LBS.



[PHILADELPHIA STANDARD]

PATTERN Nº	A	WEIGHT
821	31	7 LBS.
822	41	9 LBS.

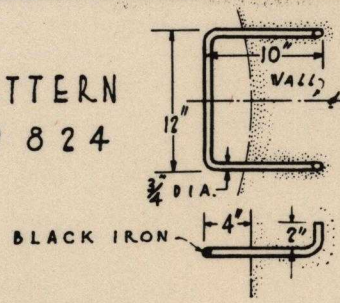
PATTERN Nº 820



WEIGHT 9 · LBS.

[PHILADELPHIA STANDARD]

PATTERN Nº 824



WEIGHT 5 · LBS.

[C Q M · PLAN Nº 672 · 225]

NOTE · WROUGHT IRON BARS · STEPS & PULLING EYES ARE AVAILABLE IN ANY DIMENSION REQUIRED.

CONTRACTORS FOUNDRY, PHILA. PA.

DATA SHEET Nº 143

3-1-48

CONTRACTORS FOUNDRY PHILADA

DATA SHEET No 143

NOTE - WROUGHT IRON BARS - STEPS & RAILING BARS ARE VARIABLE IN ANY DIMENSION REQUIRED

[PHILADELPHIA STANDARD]

PATTERN No	A	WEIGHT
831	21	7 LBS
833	41	9 LBS

[PHILADELPHIA STANDARD]

PATTERN No 850

WEIGHT 6 LBS

[P & W. R. R. No 613-358]

PATTERN No 854

WEIGHT 5 LBS

SECTION

PATTERN No	A	B	C	WEIGHT
6	10	8½	8	11 LBS
800	7	6½	5	5½ LBS

PLAN

CHECKERED SURFACE

CAST-IRON

WEIGHT 6 LBS

PATTERN No 9

[ARCADIA DEPARTMENT STANDARD]

WEIGHT 10 LBS

PATTERN No 819

ELEVATION

PLAN

WEIGHT 6 LBS

PATTERN No 8

[ARCADIA ADMINISTRATION STANDARD]

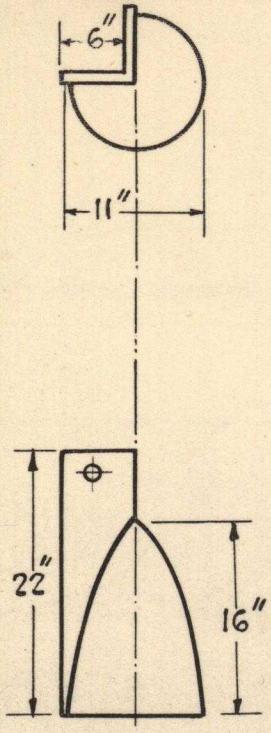
COMMERCIAL WROUGHT IRON

CAST IRON

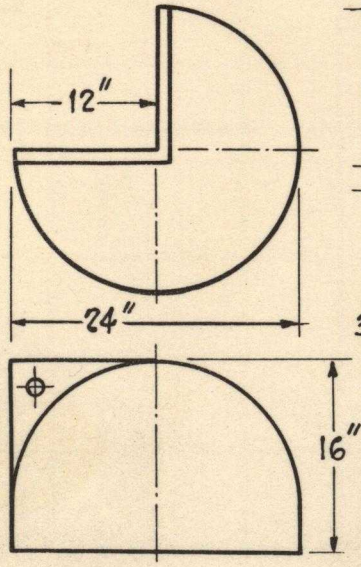
MANHOLE STEPS & LADDER BARS

·CAST IRON · WHEEL GUARDS · FENDERS · OR · BUMPERS ·

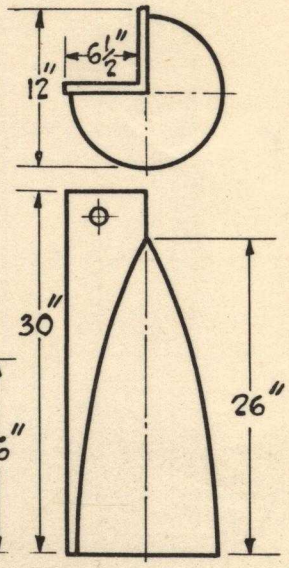
NOTE · HEIGHT AND WIDTH OF BACK PLATES MAY BE CHANGED WHEN REQUIRED.



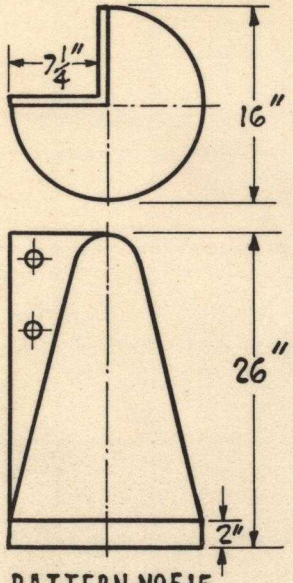
PATTERN Nº 501
WEIGHT · 60 · LBS.



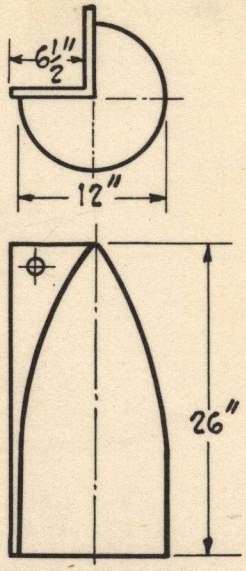
PATTERN Nº 509
WEIGHT · 255 · LBS.



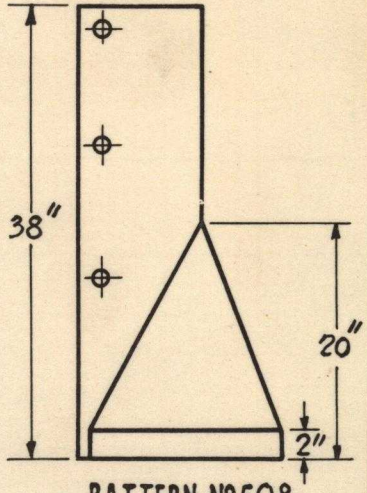
PATTERN Nº 503
WEIGHT · 90 · LBS.



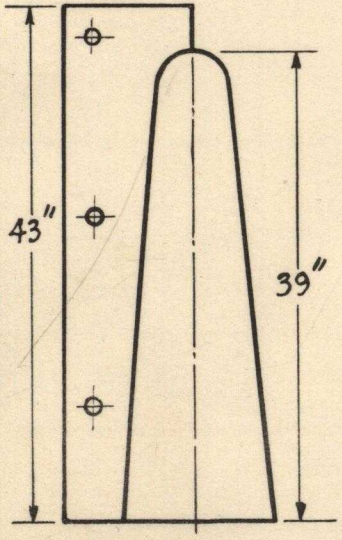
PATTERN Nº 515
WEIGHT · 190 · LBS.

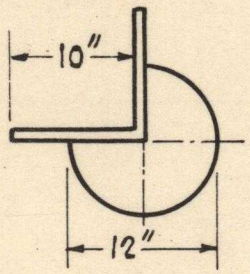


PATTERN Nº 502
WEIGHT · 75 · LBS.

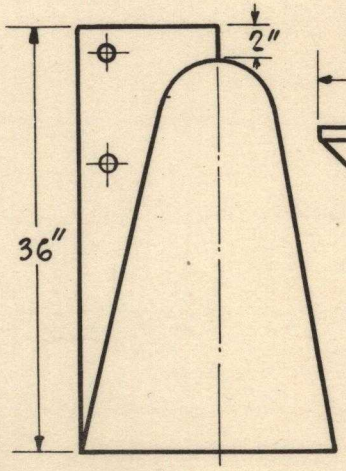


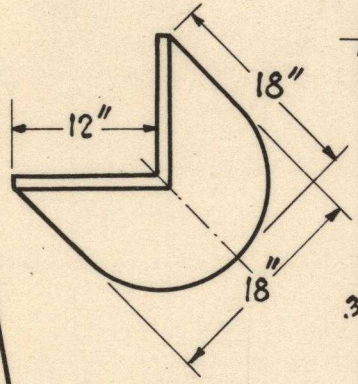
PATTERN Nº 508
WEIGHT · 210 · LBS.



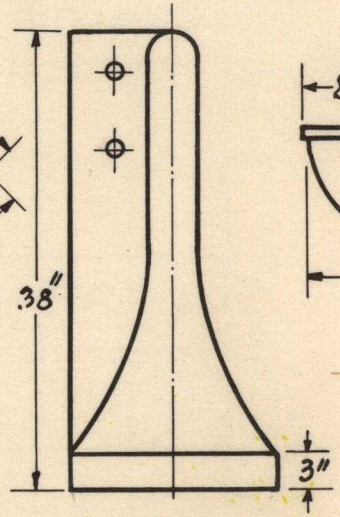


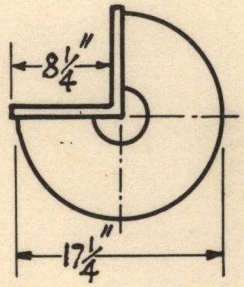
PATTERN Nº 510
WEIGHT · 400 · LBS.





PATTERN Nº 513
WEIGHT · 350 · LBS.





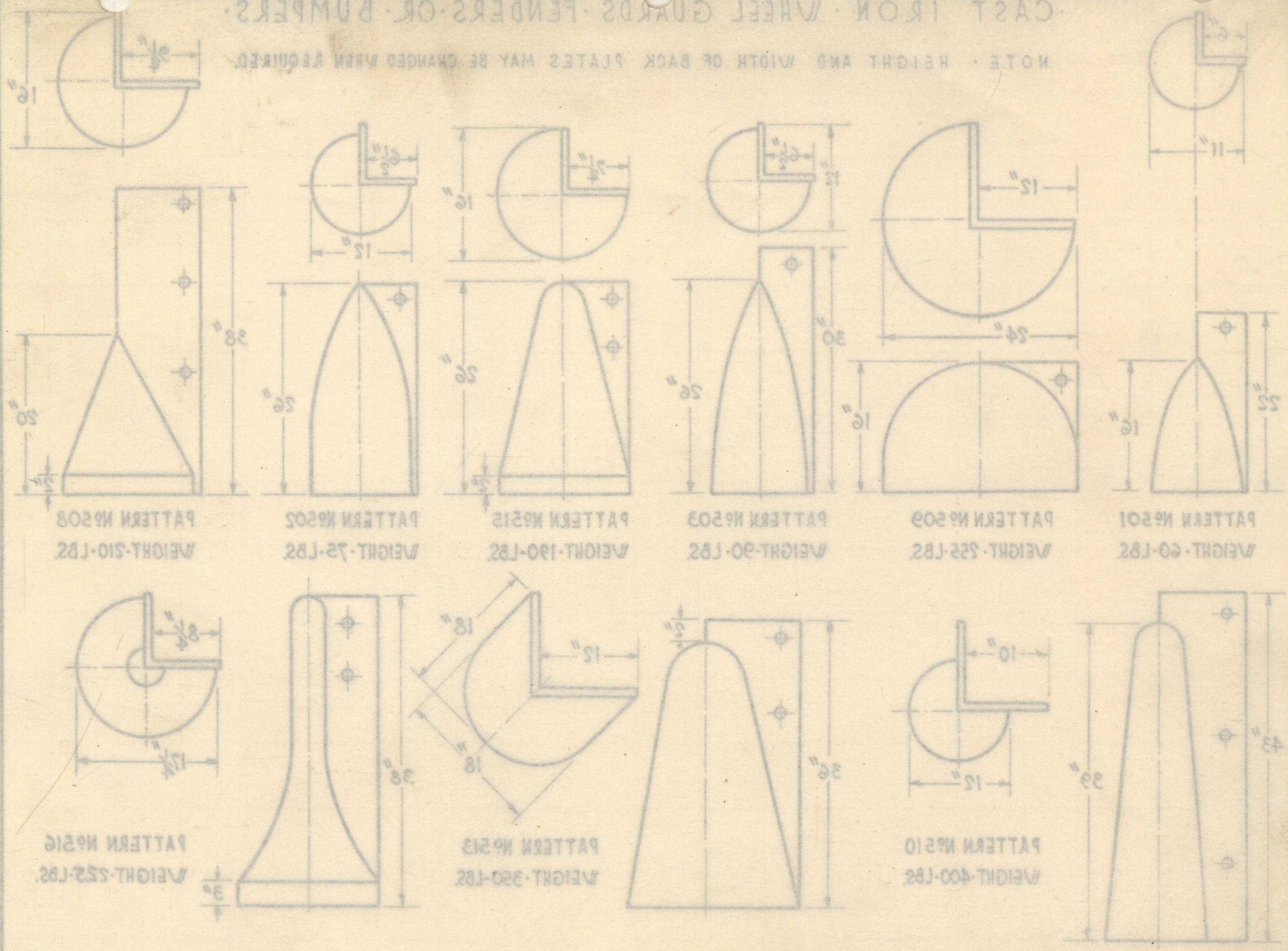
PATTERN Nº 516
WEIGHT · 225 · LBS.

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 144

CAST IRON WHEEL GUARDS FENDERS OR BUMPERS

NOTE - HEIGHT AND WIDTH OF BACK PLATES MAY BE CHANGED WHEN REQUIRED.

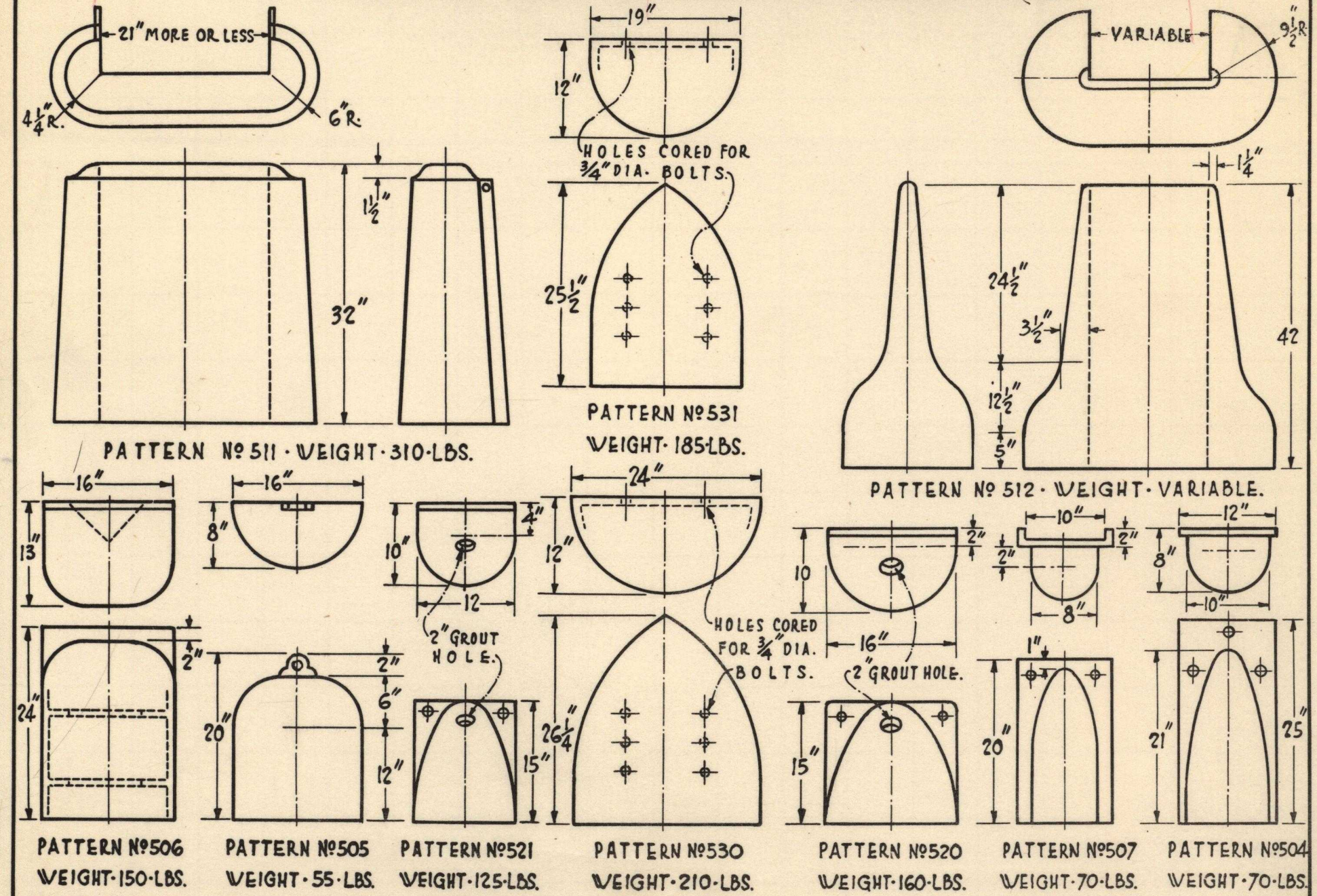


CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 144

·CAST IRON · WHEEL GUARDS · FENDERS · OR · BUMPERS ·

NOTE · HEIGHT AND WIDTH OF BACK PLATES MAY BE CHANGED WHEN REQUIRED.



PATTERN Nº 511 · WEIGHT · 310 · LBS.

PATTERN Nº 531
WEIGHT · 185 · LBS.

PATTERN Nº 512 · WEIGHT · VARIABLE.

PATTERN Nº 506
WEIGHT · 150 · LBS.

PATTERN Nº 505
WEIGHT · 55 · LBS.

PATTERN Nº 521
WEIGHT · 125 · LBS.

PATTERN Nº 530
WEIGHT · 210 · LBS.

PATTERN Nº 520
WEIGHT · 160 · LBS.

PATTERN Nº 507
WEIGHT · 70 · LBS.

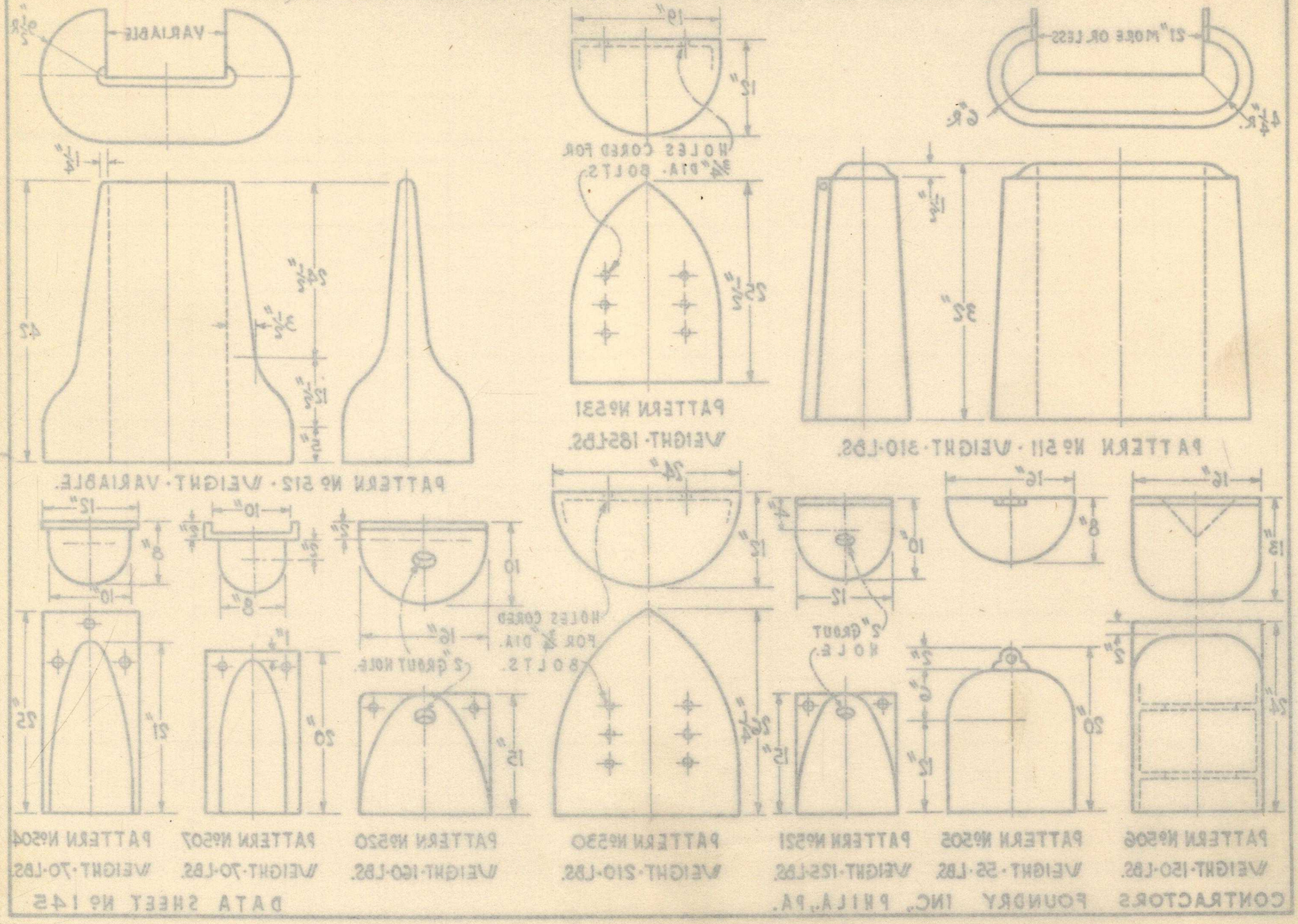
PATTERN Nº 504
WEIGHT · 70 · LBS.

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 145

CAST IRON WHEEL GUARDS FENDERS OR BUMPERS

NOTE - HEIGHT AND WIDTH OF BACK PLATES MAY BE CHANGED WHEN REQUIRED.



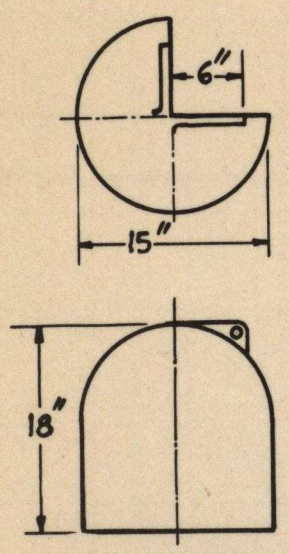
DATA SHEET Nº 145

FOUNDRY INC., PHILA., PA.

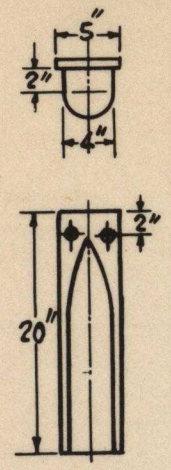
CONTRACTORS

·CAST IRON · WHEEL GUARDS · FENDERS · OR · BUMPERS ·

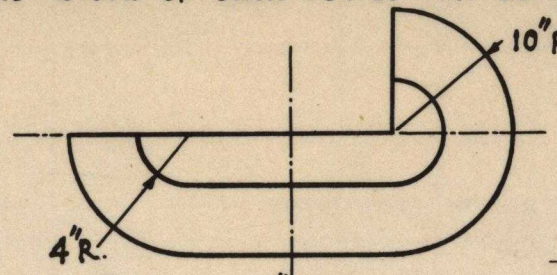
NOTE · HEIGHT AND WIDTH OF BACK PLATES MAY BE CHANGED WHEN REQUIRED.

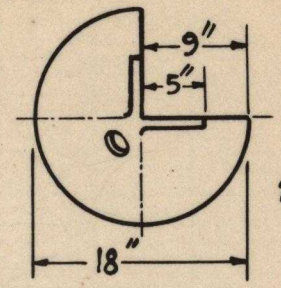


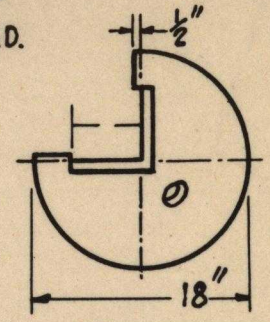
PATTERN Nº 518
WEIGHT · 110 · LBS.

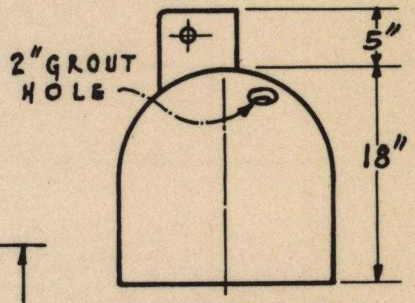


PATTERN Nº 535
WEIGHT · 38 · LBS.

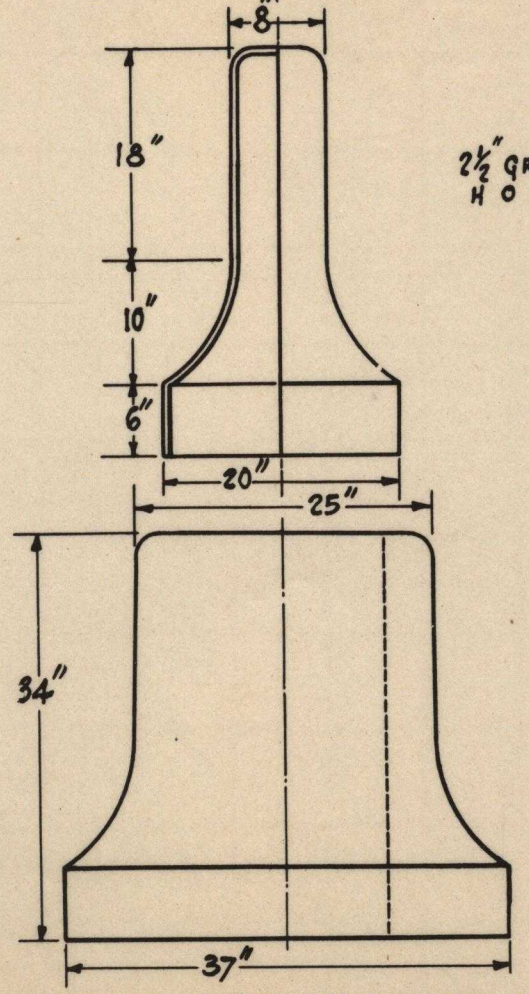




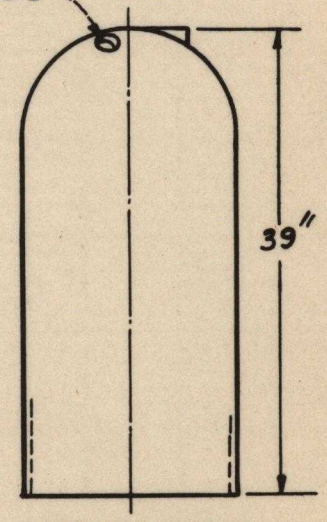




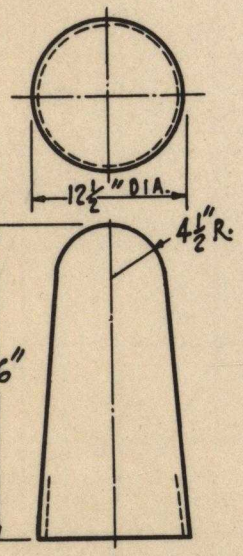
PATTERN Nº 519
WEIGHT · 225 · LBS.



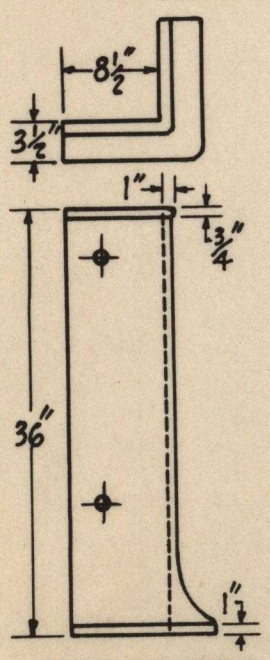
PATTERN Nº 532 · WEIGHT · 350 · LBS.
[STANDARD FOR ARMY POST FIRE STATIONS]



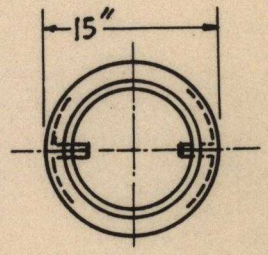
PATTERN Nº 533
WEIGHT · 375 · LBS.

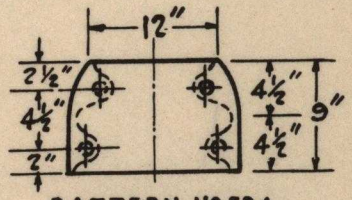


PATTERN Nº 536
WEIGHT · 142 · LBS.



PATTERN Nº 517
WEIGHT · 140 · LBS.





PATTERN Nº 534
WEIGHT · 63 · LBS.

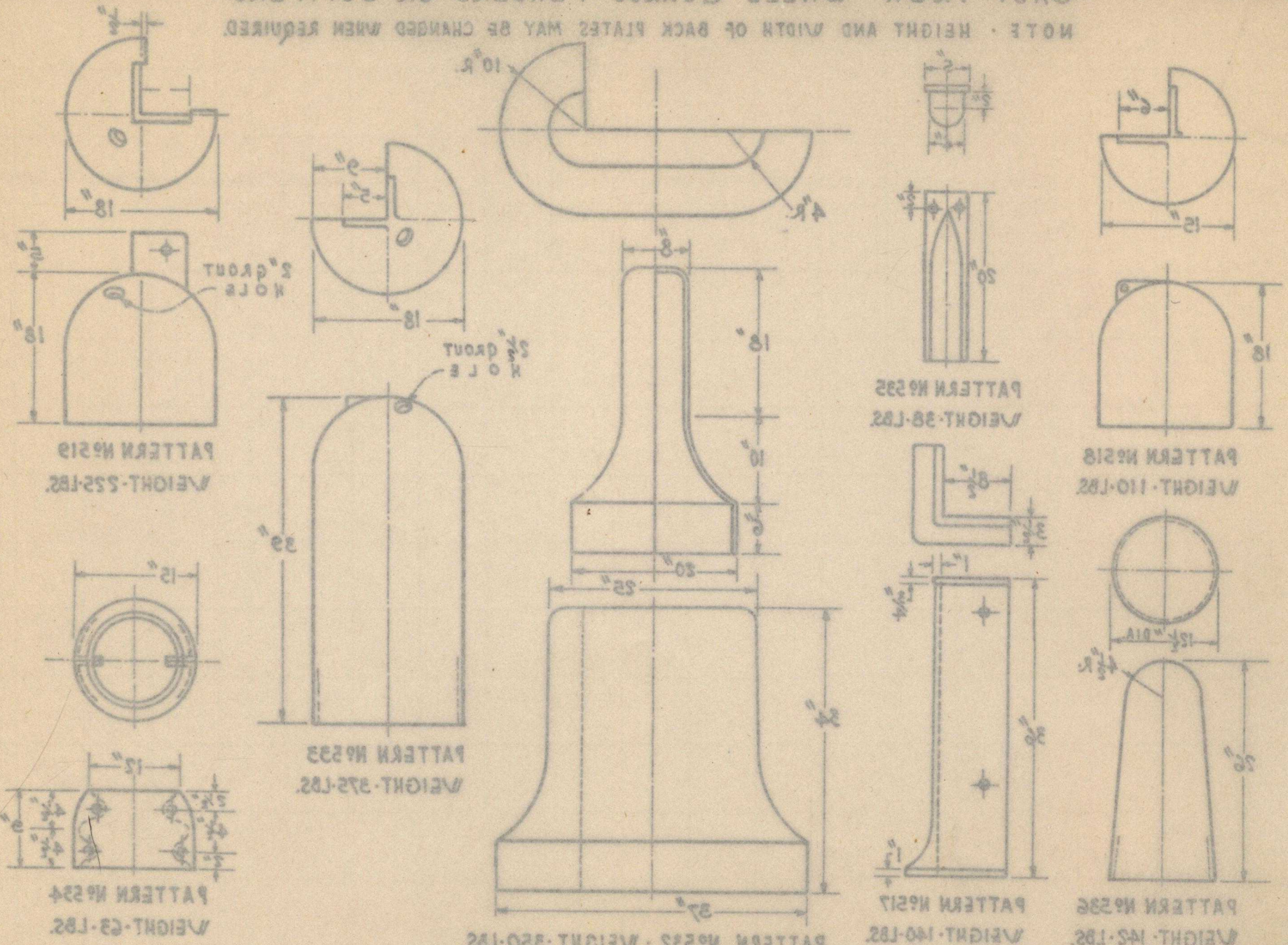
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 146

REVISED 1/18/41

CAST IRON · WHEEL GUARDS · FENDERS · OR · BUMPERS.

NOTE · HEIGHT AND WIDTH OF BACK PLATES MAY BE CHANGED WHEN REQUIRED.



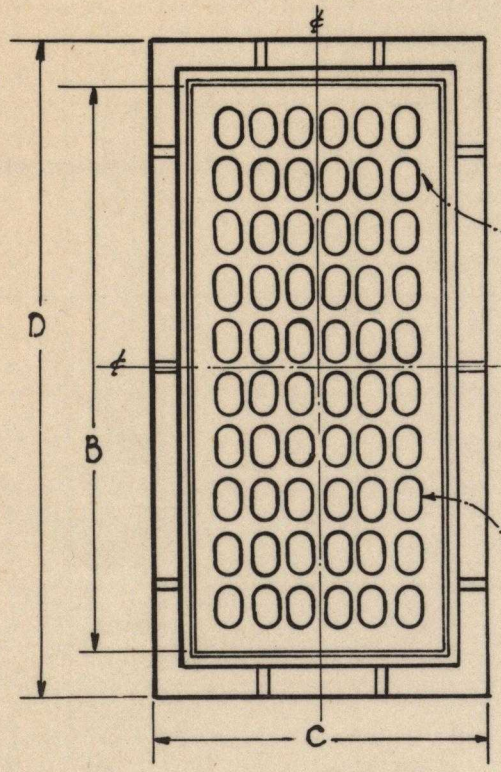
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET No 146

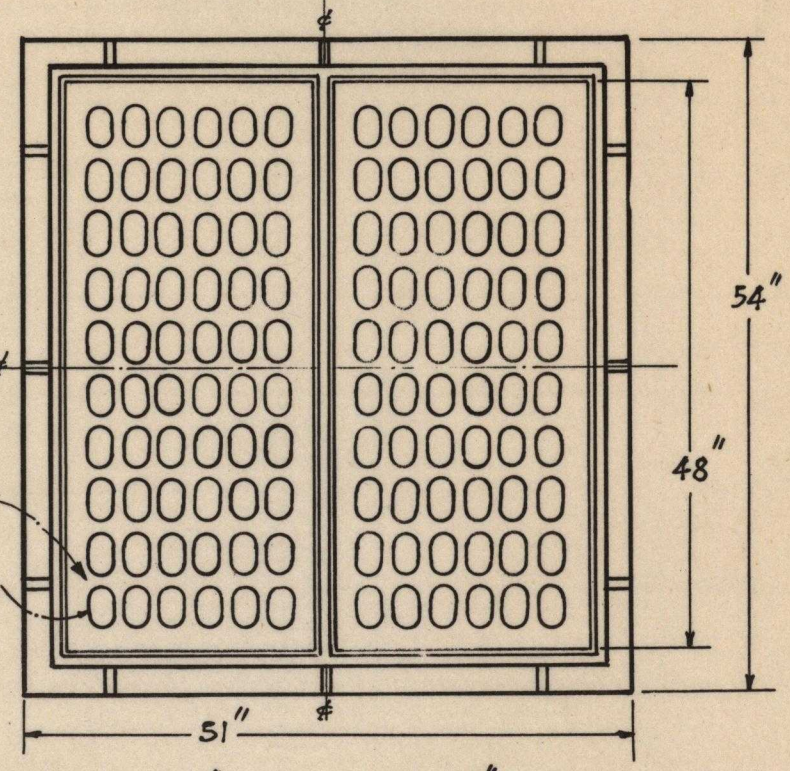
REVISED 1/8/41

CAST IRON · HIGHWAY INLET FRAMES & GRATINGS.

SINGLE



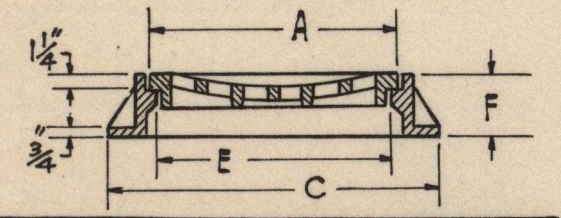
DOUBLE

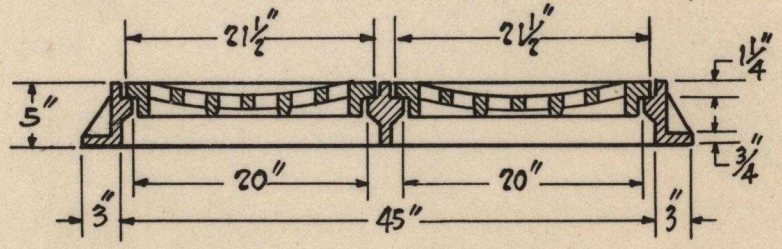


SOLID COVERS FURNISHED WHEN SPECIFIED.

GRATINGS CAN BE SUPPLIED EITHER STRAIGHT OR DISHED.

OPENINGS 3½"×2"





PATTERN No	A	B	C	D	E	F	WEIGHT
327	20½	34⅛	28	41⅜	19¼"×32½	4	450
328	21½	47¾	28	54	20"×46¼	5	650
329	29¾	49¼	36	55½	28"×48	5	950

PATTERN No 330
WEIGHT 1200 · LBS.

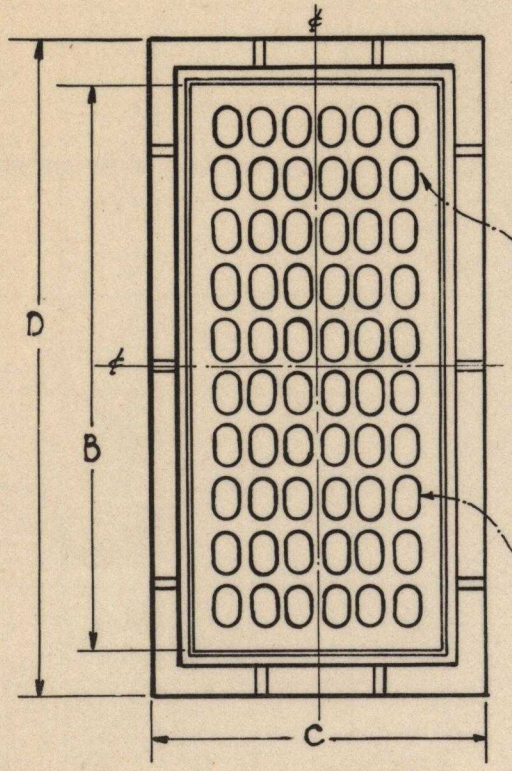
CAST IRON · HIGHWAY INLET FRAMES & GRATINGS.

PATTERN No 330
WEIGHT 1500 LBS.

PATTERN No	A	B	C	D	E	F	WEIGHT
329	20 3/4	24 3/4	28	41 3/4	19 3/4"x33 3/4"	4	420
328	21 1/2	25 1/2	28	24	20"x46 3/4"	2	620
330	30 3/4	34 3/4	36	55 3/4	28 3/4"x48	2	950

CAST IRON · HIGHWAY INLET FRAMES & GRATINGS.

SINGLE

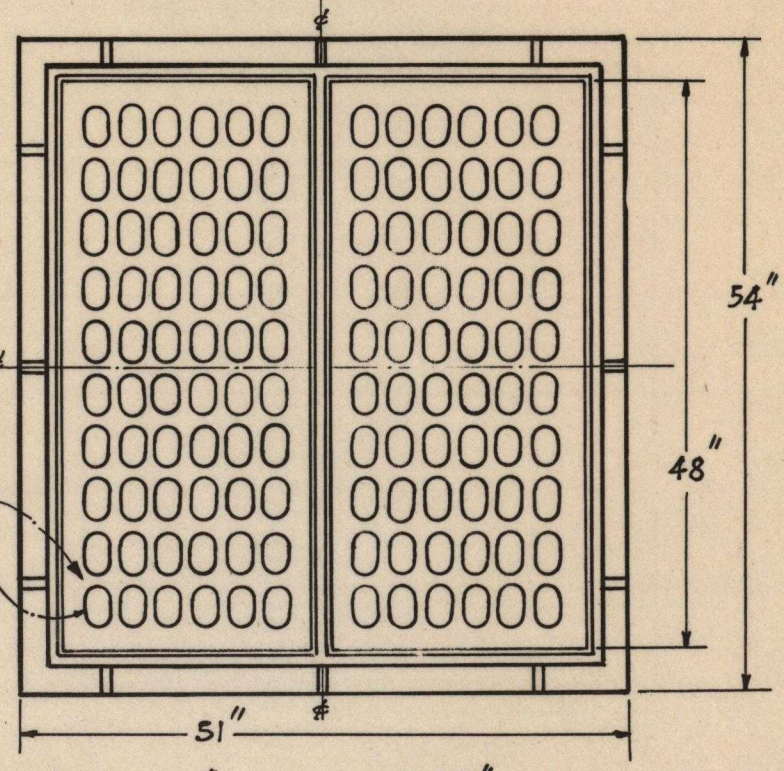


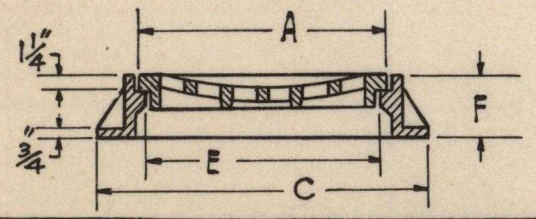
SOLID COVERS FURNISHED WHEN SPECIFIED.

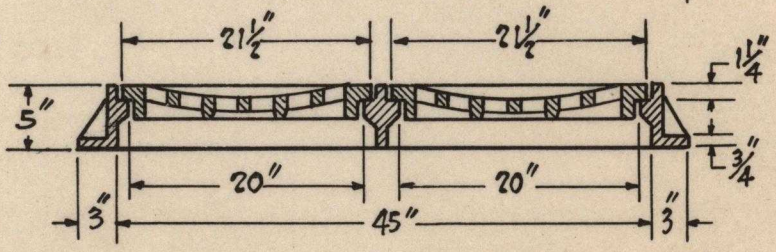
GRATINGS CAN BE SUPPLIED EITHER STRAIGHT OR DISHED.

OPENINGS 3½"×2"

DOUBLE







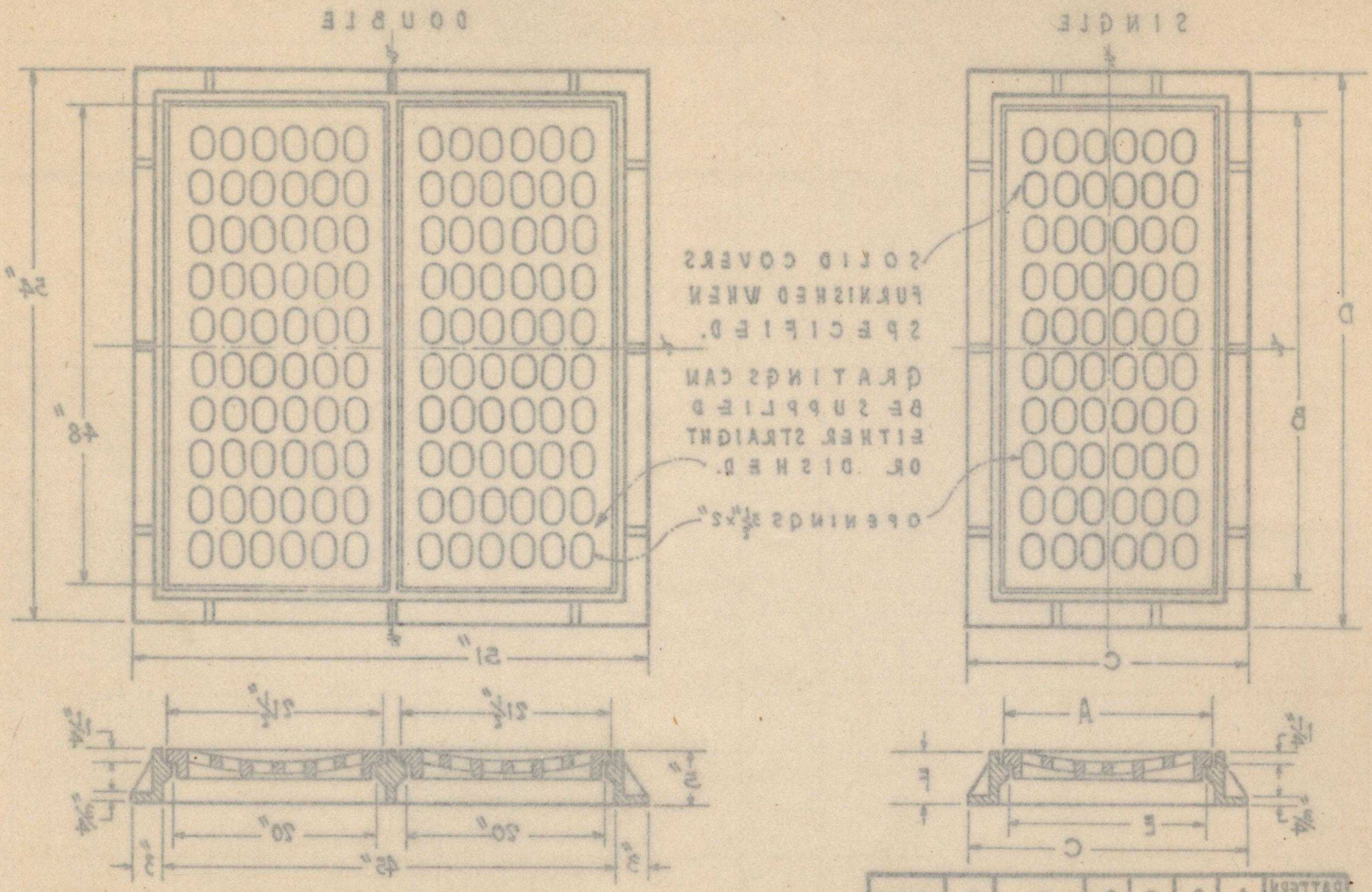
PATTERN No	A	B	C	D	E	F	WEIGHT
327	20½	34⅛	28	41⅜	19¼"×32½	4	450
328	21½	47¾	28	54	20"×46¼	5	650
329	29¾	49¼	36	55½	28"×48	5	950

PATTERN No 330
WEIGHT 1200·LBS.

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET No 149

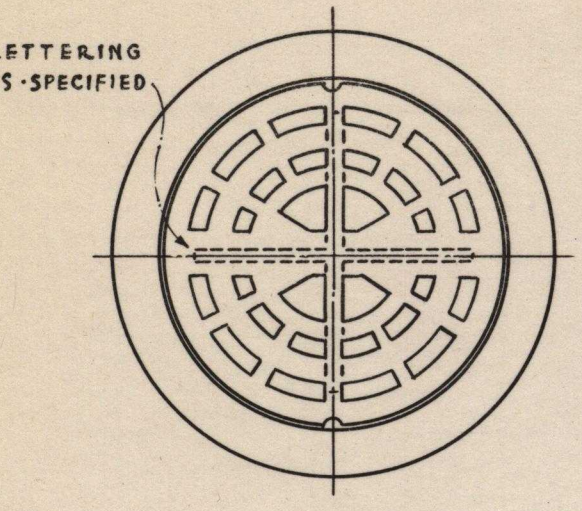
CAST IRON · HIGHWAY INLET FRAMES & GRATINGS.

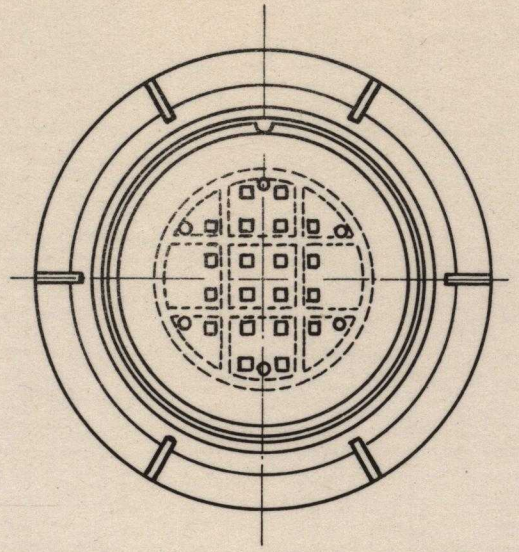


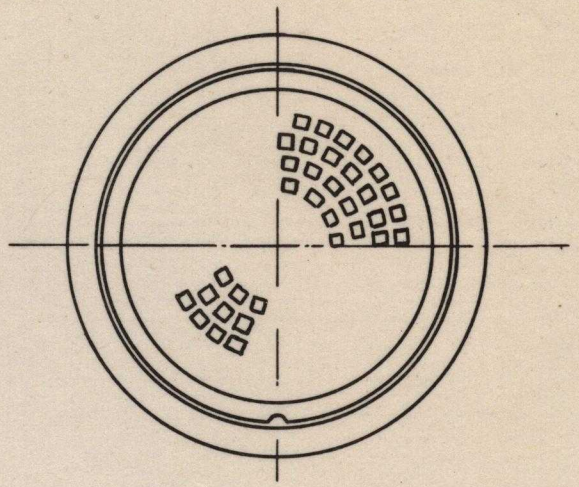
PATTERN No	A	B	C	D	E	F	WEIGHT
327	20 1/2"	34 1/2"	28	41 1/2"	19 1/2"x32 1/2"	4	450
328	21 1/2"	42 1/2"	28	54	20"x46 1/2"	5	650
329	29 1/2"	49 1/2"	36	55 1/2"	28"x48	5	950

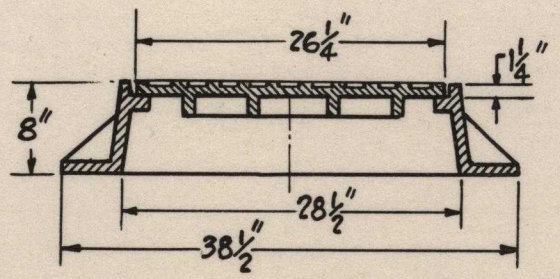
PATTERN No 330
WEIGHT 1200 LBS.

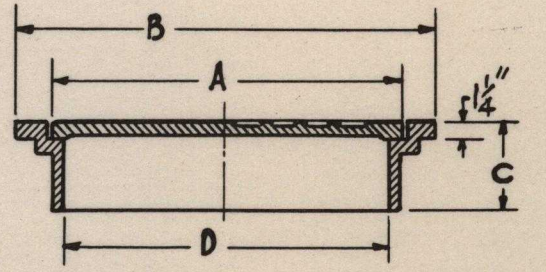
·CAST IRON · MANHOLE FRAMES & COVERS·











PATTERN Nº	A	B	C	D	WEIGHT
251	23	29½	6	21	450
252	26½	32	6	24	500
253	32	38½	6	30	650
254	38	44½	6	36	850

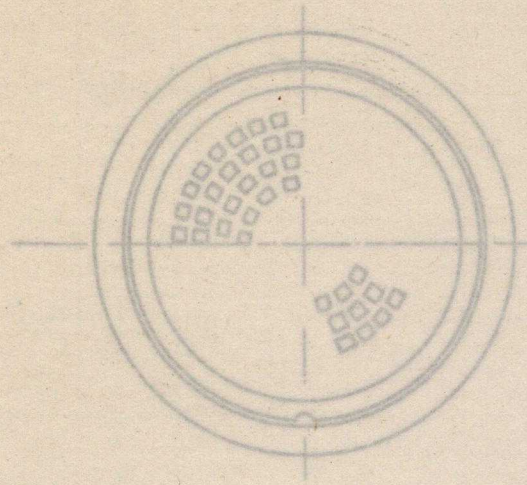
PATTERN Nº 43
WEIGHT·600·LBS.

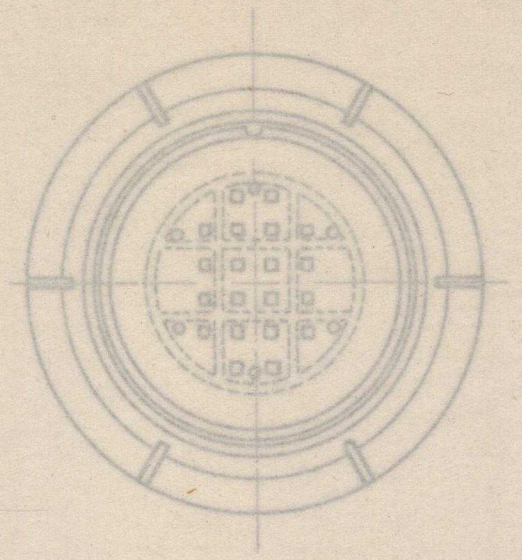
PATTERN Nº	A	B	C	D	WEIGHT
385	24	28½	6	22	275
386	25½	30	6	24	300
387	32	36	6	30	450
388	38	44	6	36	600

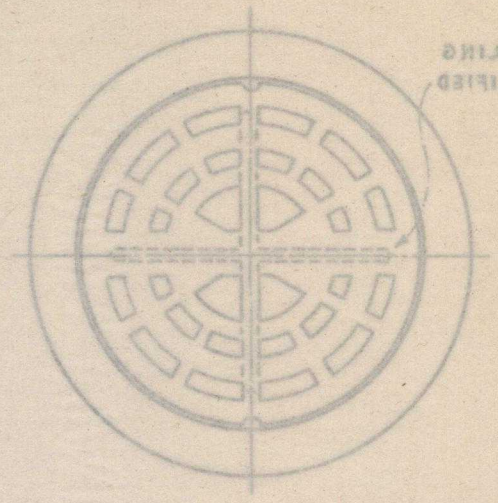
CONTRACTORS FOUNDRY INC., PHILA., PA.

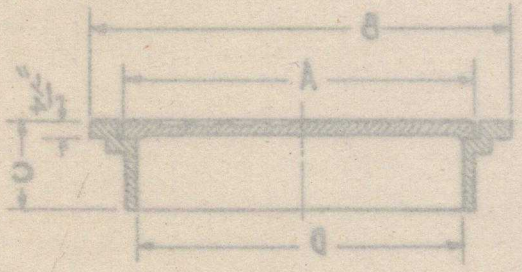
DATA SHEET Nº 150

CAST IRON · MANHOLE FRAMES & COVERS

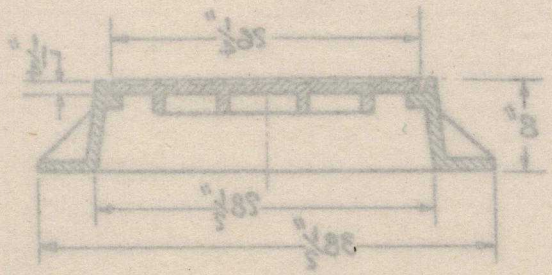




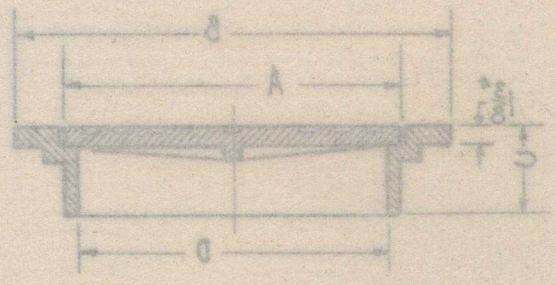




PATTERN Nº	A	B	C	D	WEIGHT
385	24	28½	6	22	275
386	25½	30	6	24	300
387	32	36	6	30	450
388	38	44	6	36	600

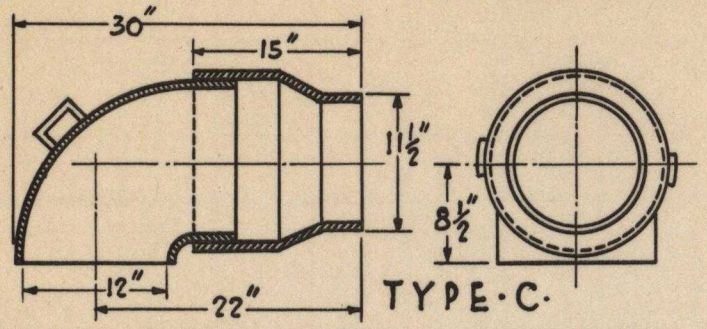


PATTERN Nº43
WEIGHT·600·LBS.



PATTERN Nº	A	B	C	D	WEIGHT
251	23	29½	6	21	450
252	26½	32	6	24	500
253	32	38½	6	30	650
254	38	44½	6	36	850

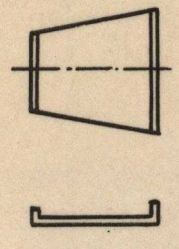
·CAST IRON·BASIN TRAPS & CATCH BASIN ASSEMBLY·



TYPE·C·

PATTERN Nº 344·12"DIA. WEIGHT·175 LBS.

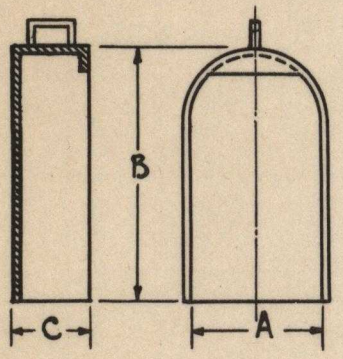
PATTERN Nº 345·15"DIA. WEIGHT·225 LBS.



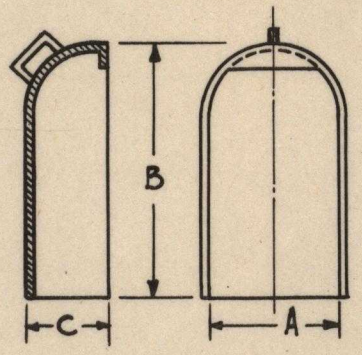
HOOK·

PATTERN Nº 343

WEIGHT·5·LBS.



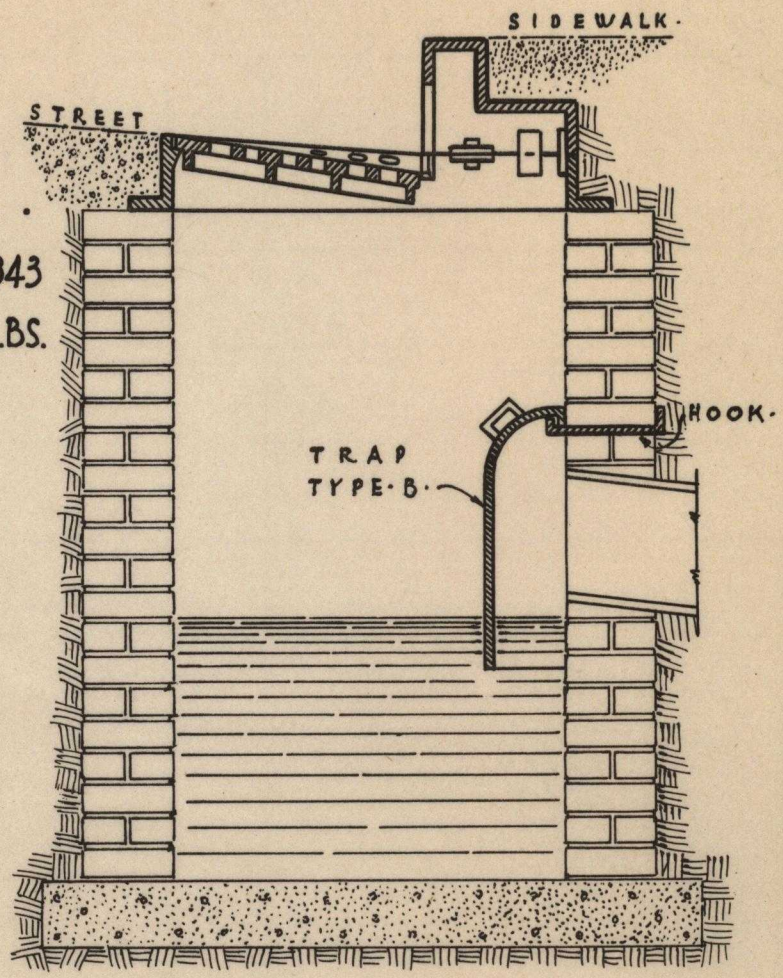
TYPE·A·



TYPE·B·

PATTERN Nº	A	B	C	WEIGHT
337	10	14	6¾	40
338	18	27½	9	85
339	25¼	35	11½	200

PATTERN Nº	A	B	C	WEIGHT
340	11¼	15	8	50
341	18	22	9	75
342	18	27	9	90



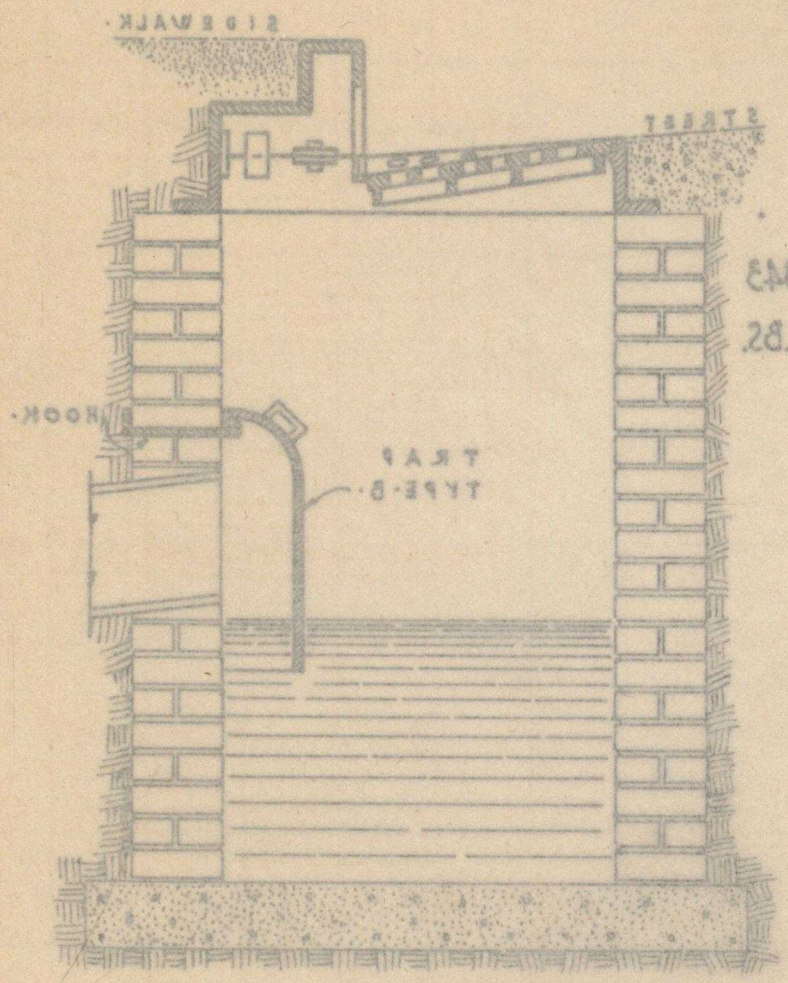
·TYPICAL·ASSEMBLY·

CONTRACTORS FOUNDRY INC., PHILA., PA.

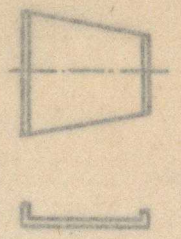
DATA SHEET Nº 151

REVISED 4/10/41·

CAST IRON BASIN TRAPS & CATCH BASIN ASSEMBLY.

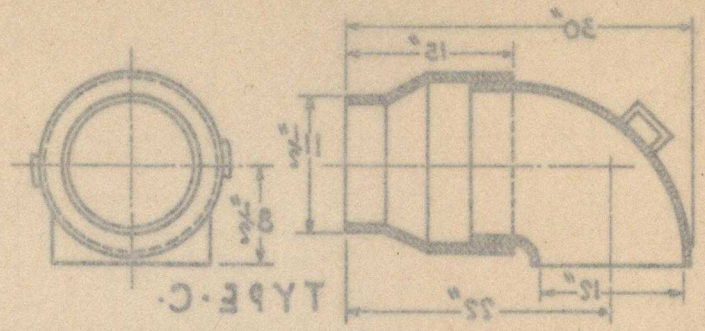


TYPICAL ASSEMBLY.



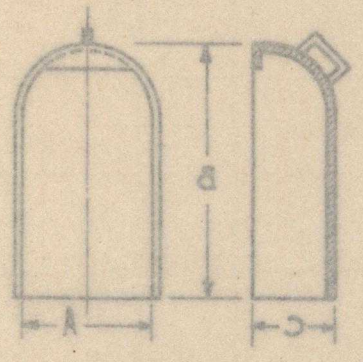
HOOK.

PATTERN Nº 343
WEIGHT 5 LBS.

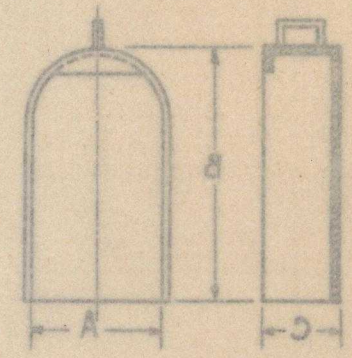


TYPE C.

PATTERN Nº 344. 12" DIA. WEIGHT 175 LBS.
PATTERN Nº 345. 15" DIA. WEIGHT 225 LBS.



TYPE B.



TYPE A.

PATTERN Nº	A	B	C	WEIGHT
337	10	14	6½	40
338	18	22½	9	85
339	24½	35	11½	200

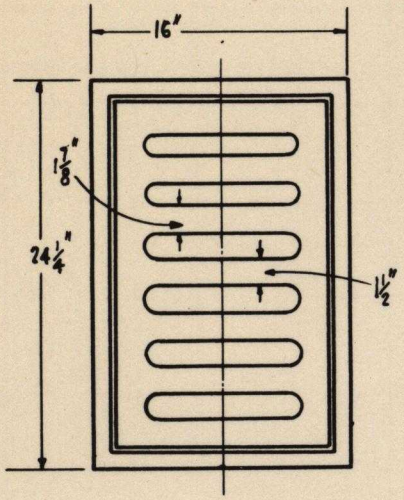
PATTERN Nº	A	B	C	WEIGHT
340	11½	15	8	50
341	18	22	9	75
342	18	27	9	90

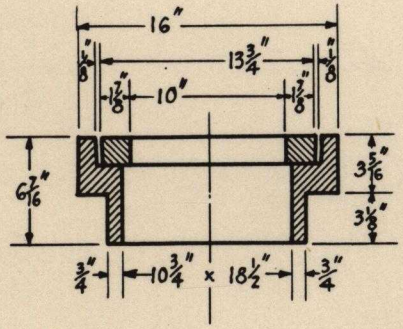
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 151

REVISED 4/10/41.

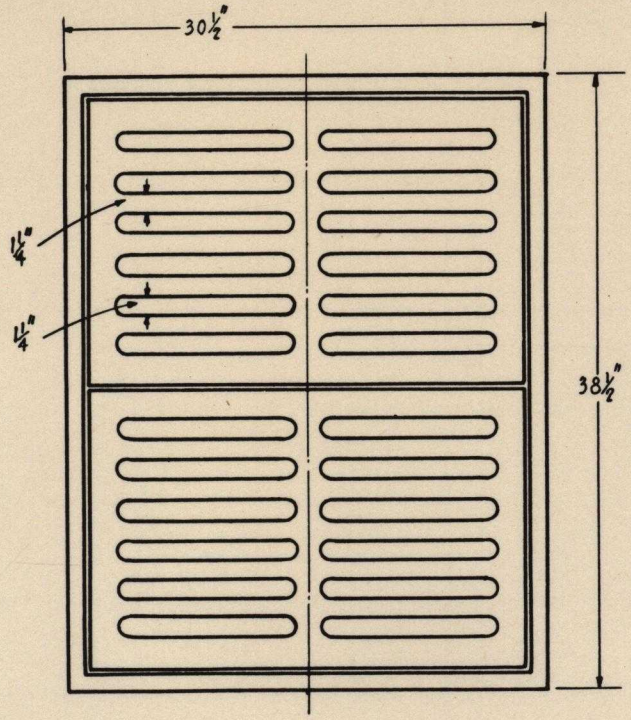
CAST IRON · HEAVY HIGHWAY FRAMES & GRATES.

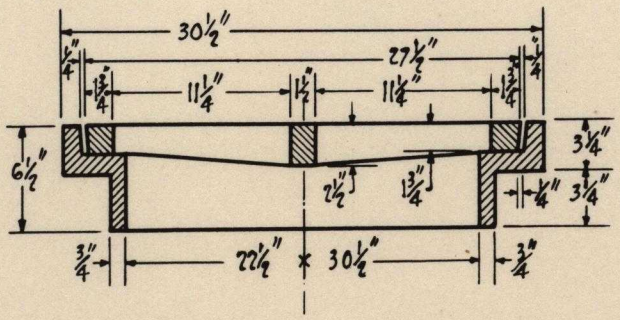




PATTERN Nº 317
WEIGHT 265 · LBS.

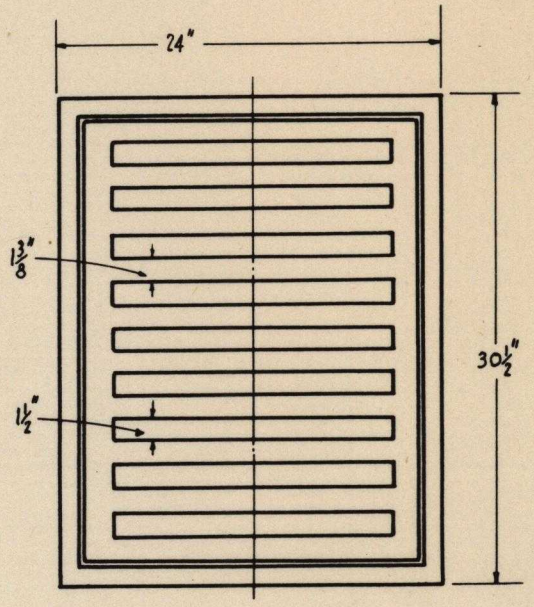
[PHILADELPHIA NAVY·YARD STANDARD
PUBLIC WORKS DR. Nº D·4631 DETAIL Nº E 2697]

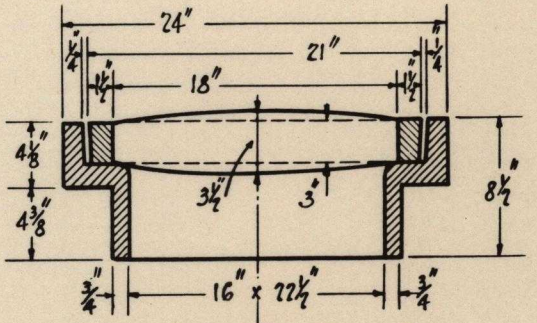




PATTERN Nº 320
WEIGHT 624 · LBS.

[PHILADELPHIA NAVY·YARD STANDARD
PUBLIC WORKS DR. Nº D 4631 DETAIL Nº E 2214]





PATTERN Nº 368
WEIGHT 515 · LBS.

CONTRACTORS FOUNDRY, PHILA. PA.

DATA SHEET Nº 154

3-1-48

CONTRACTORS FOUNDRY PHILA. PA.

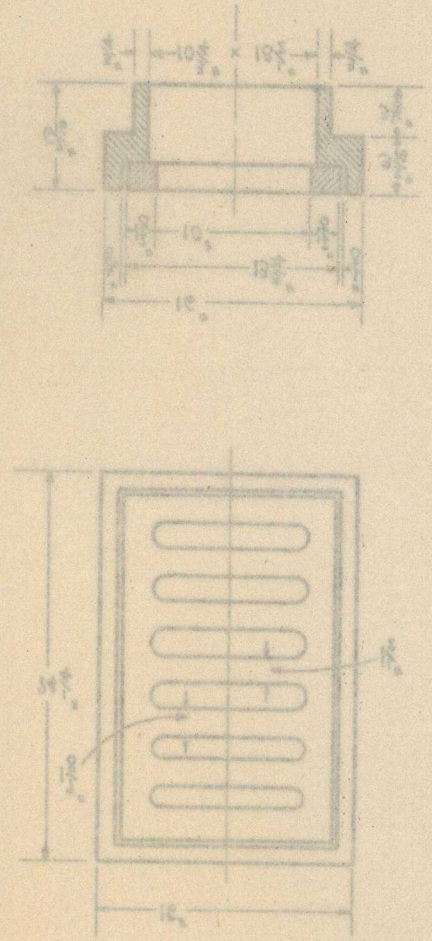
DATA SHEET No 124

[PUBLIC WORKS DEPT. DETAIL No E 3214]
[PHILADELPHIA NAVY-YARD STANDARD]

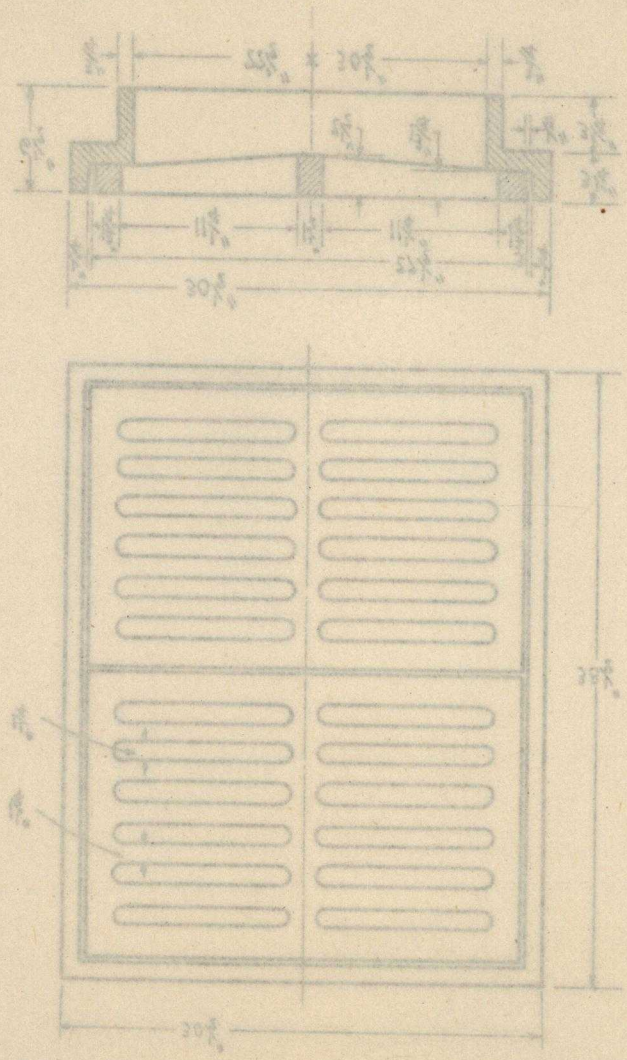
[PUBLIC WORKS DEPT. DETAIL No E 3213]
[PHILADELPHIA NAVY-YARD STANDARD]

CAST IRON · HEAVY HIGHWAY FRAMES & GRATES.

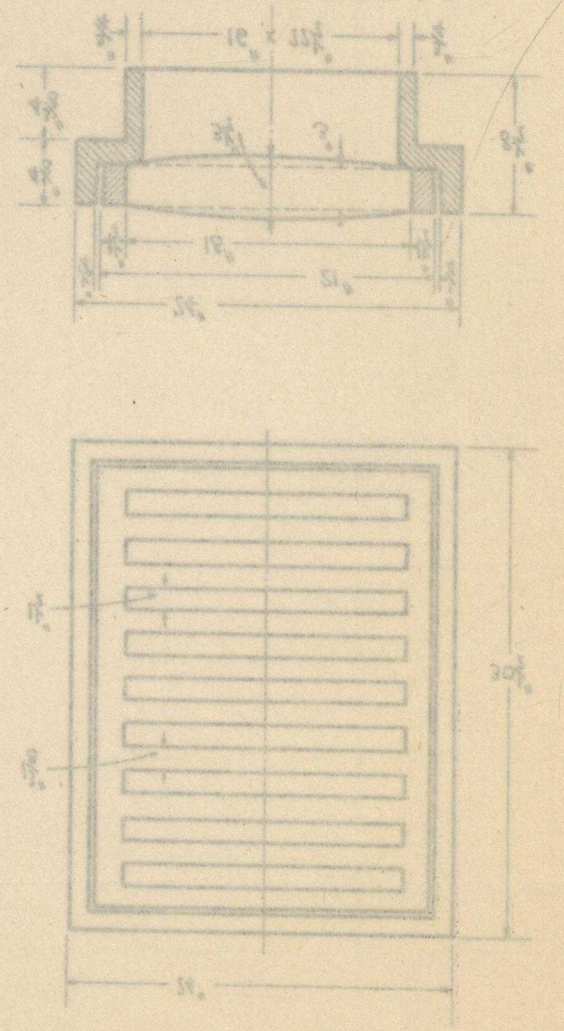
PATTERN No 318
WEIGHT 265 · LBS.



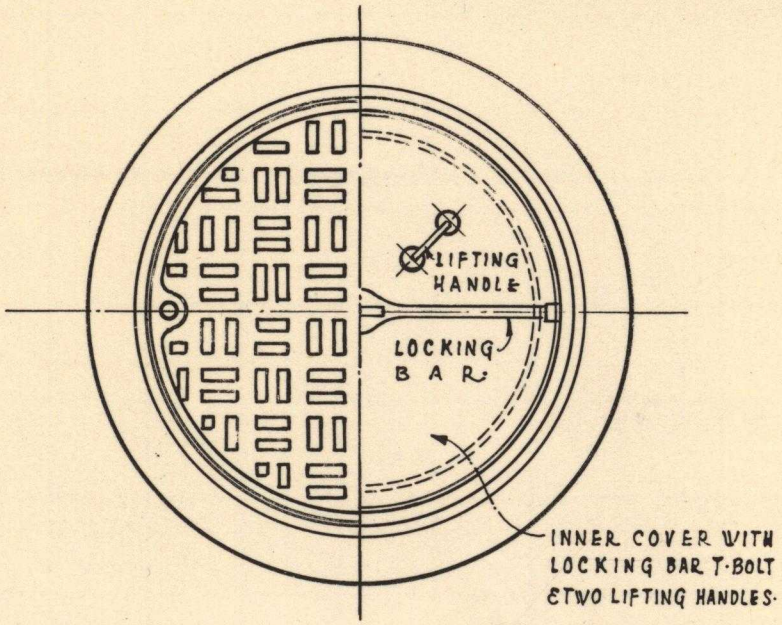
PATTERN No 350
WEIGHT 624 · LBS.

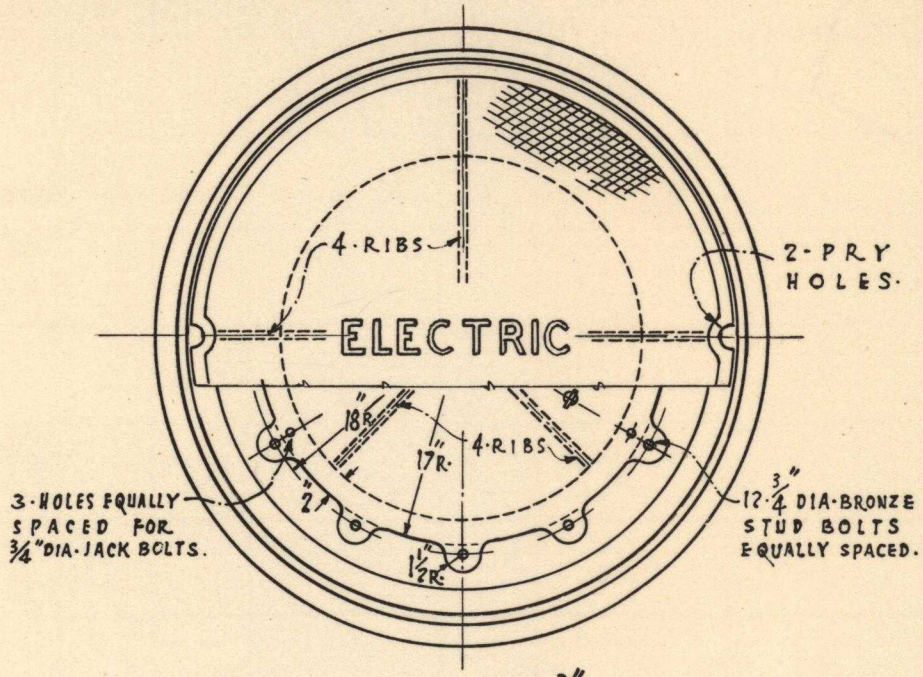


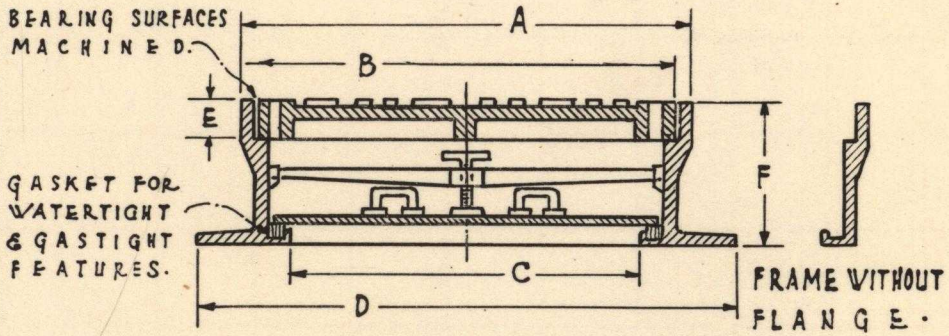
PATTERN No 368
WEIGHT 515 · LBS.

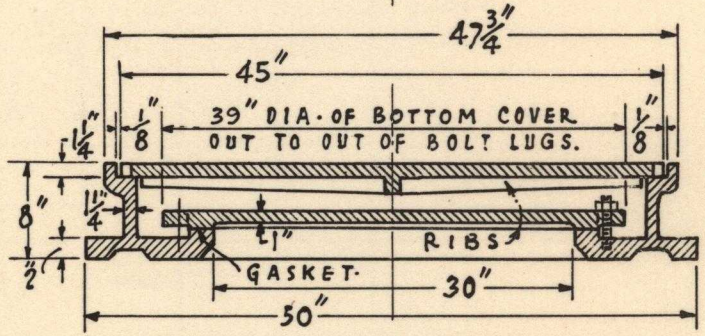


CAST IRON · WATERTIGHT & GASTIGHT MANHOLES.



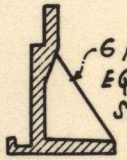






FRAME WITH CENTER FLANGE

PATTERN Nº	A	B	C	D	E	F	WEIGHT
490	25 3/4	23 3/4	20	31	2 1/2	8	425
491	28	25 7/8	22	34	2 1/2	9	525
492	31 1/2	30	24	34	1 1/2	8	680
493	34 1/4	32	28	44	2 1/2	9	875



FRAME WITH FLANGE & SIX RIBS.

PATTERN Nº 494
WEIGHT 1800 LBS.

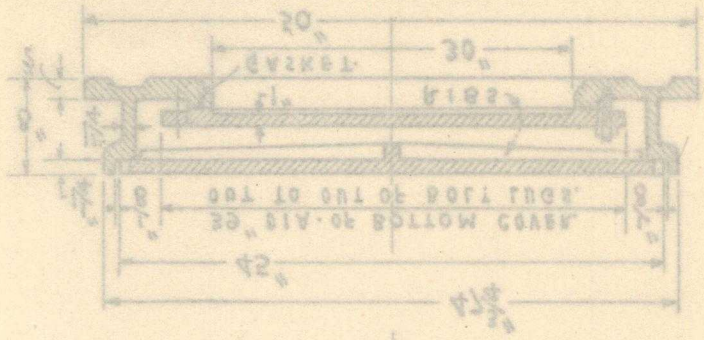
CONTRACTORS FOUNDRY INC., PHILA., PA.

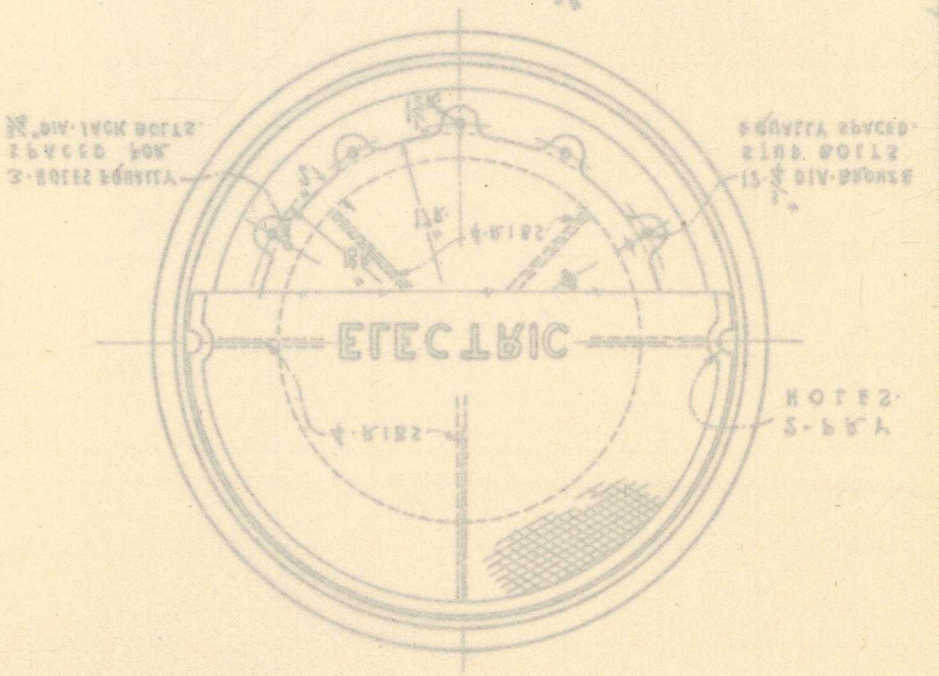
DATA SHEET Nº 156

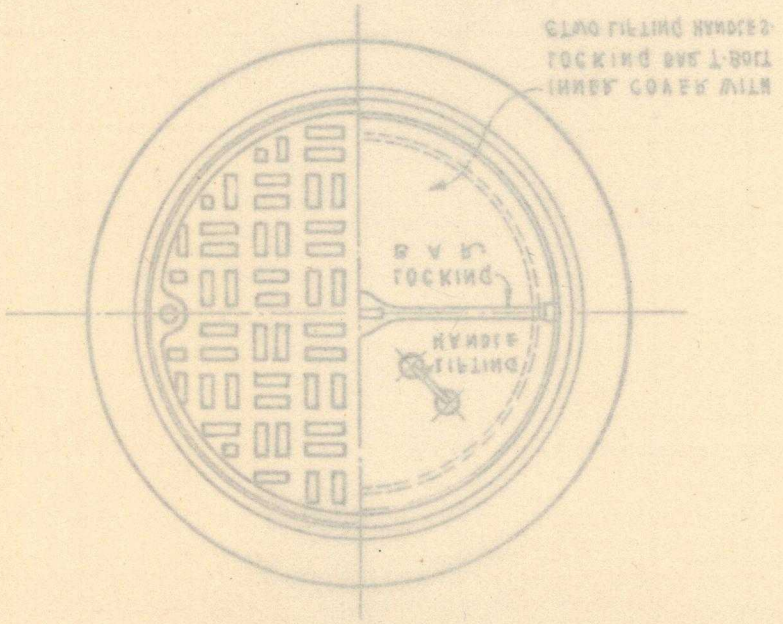
CAST IRON · WATERTIGHT & CASTIGHT MANHOLES.

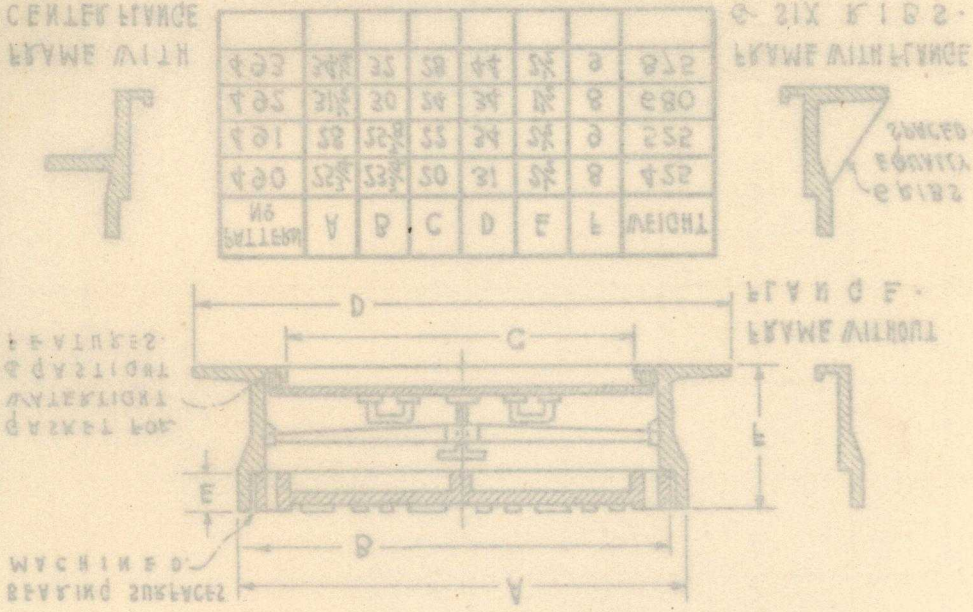
PATTERN No 484

WEIGHT 1800 LBS.



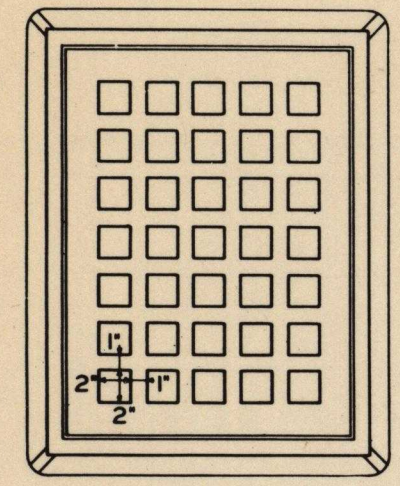


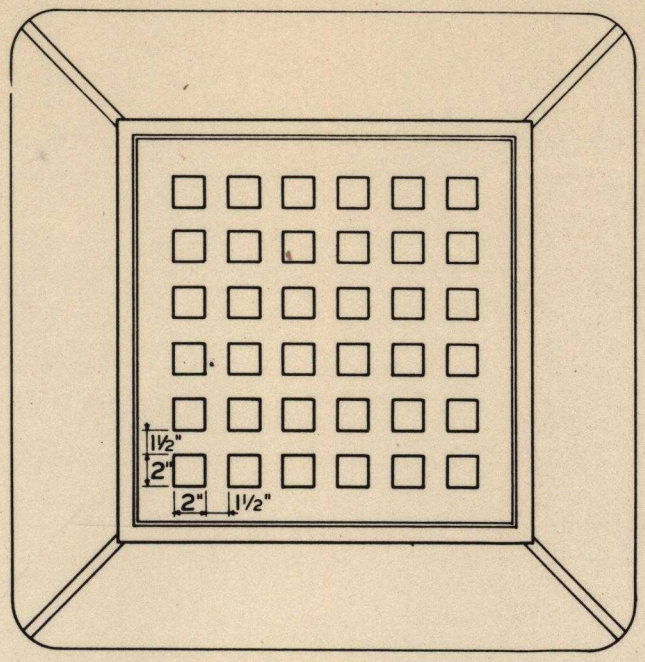


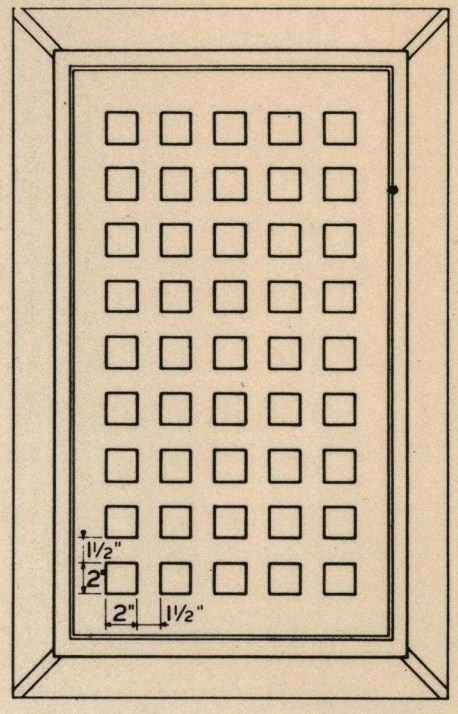


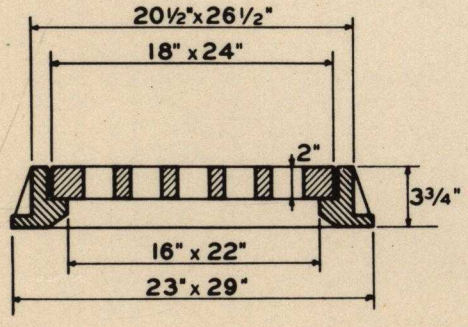
PATTERN No	A	B	C	D	E	F	WEIGHT
484	42½	43½	30	31	2½	8	452
481	22	22½	22	24	2½	6	252
482	31½	30	24	34	1½	8	680
483	34½	32	28	44	2½	6	872

CAST IRON HEAVY CATCHBASIN FRAMES AND GRATES



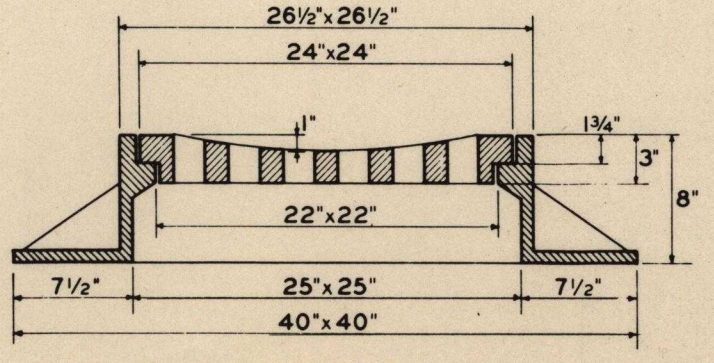






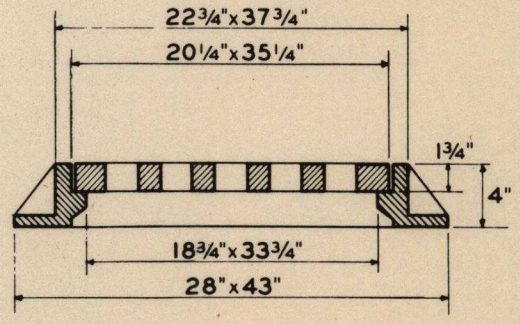
PATTERN NO. 356

WEIGHT 325 LBS



PATTERN NO. 750

WEIGHT 680 LBS



PATTERN NO. 775

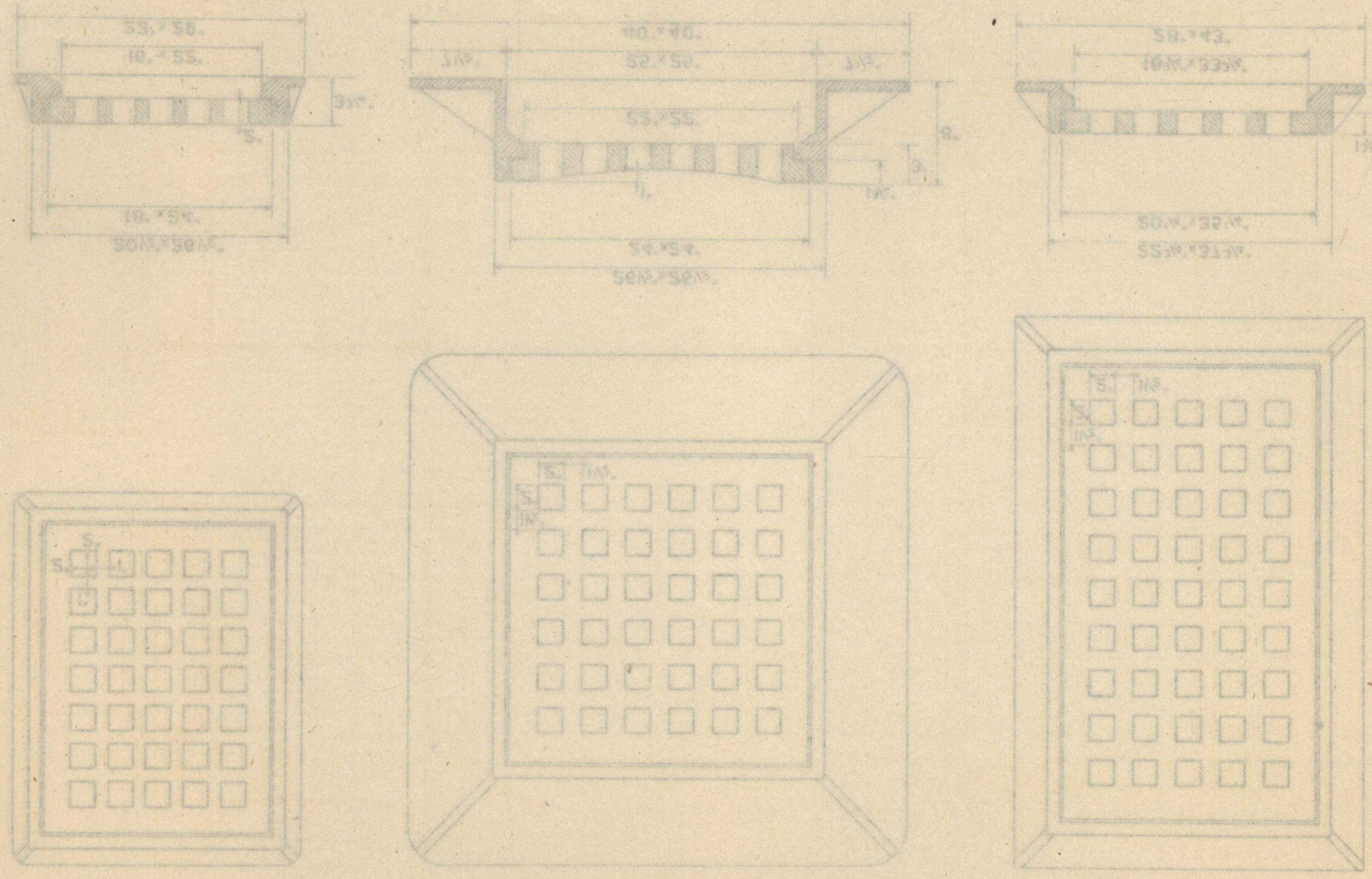
WEIGHT 475 LBS

CONTRACTORS FOUNDRY PHILADELPHIA PA.

DATA SHEET NO. 162

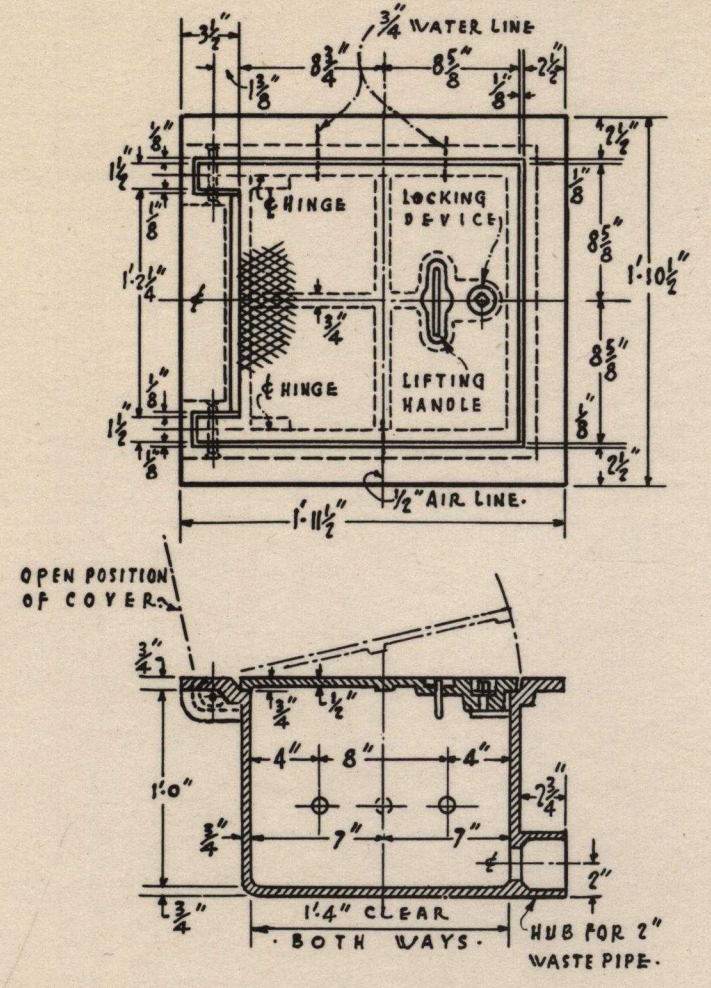
11 20 47 J

CAST IRON HEAVY CATCHBASIN FRAMES AND GRATES



CAST IRON · FLOOR SERVICE BOXES FOR HANGAR APRONS, ETC.

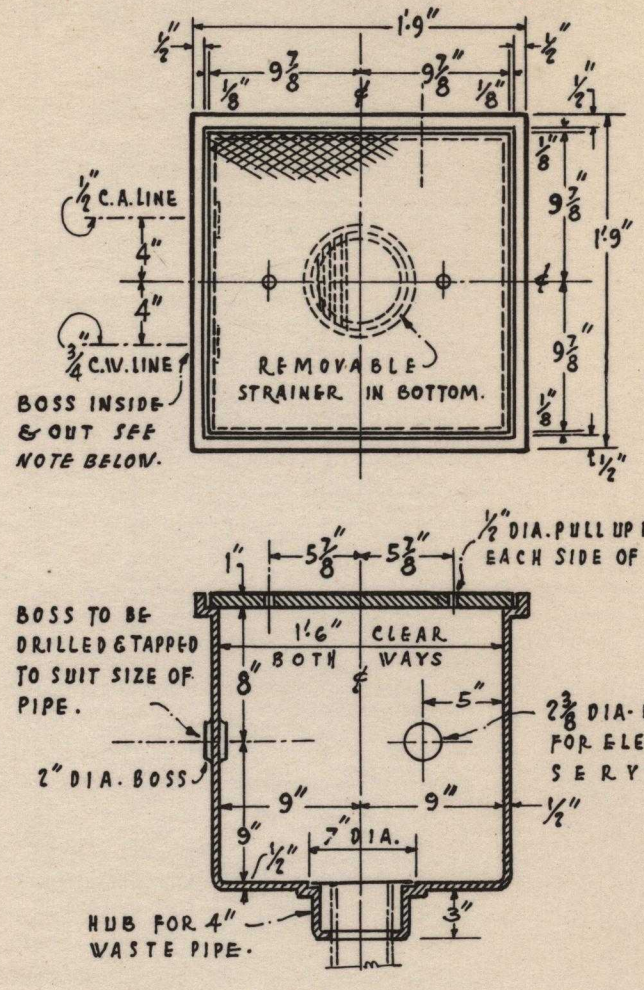
[FURNISHED GALVANIZED UNLESS OTHERWISE SPECIFIED.]



PATTERN No. 780

WEIGHT 415 LBS.

[LA GUARDIA FIELD STANDARD]



PATTERN No. 781

WEIGHT 350 LBS.

[NATIONAL AIRPORT, GRAVELLY POINT, VA. STANDARD]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET No. 163

REVISED 4/3/46

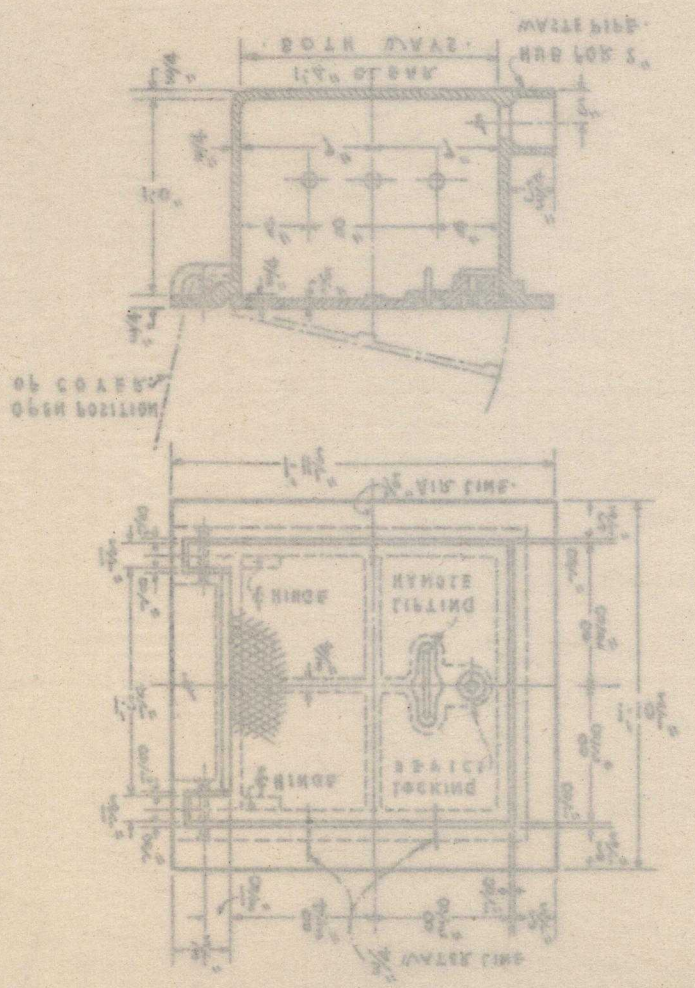
CAST IRON - FLOOR SERVICE BOXES FOR HANGAR APRONS ETC.

[FURNISHED GALVANIZED UNLESS OTHERWISE SPECIFIED]

PATTERN No 180

WEIGHT 415 LBS.

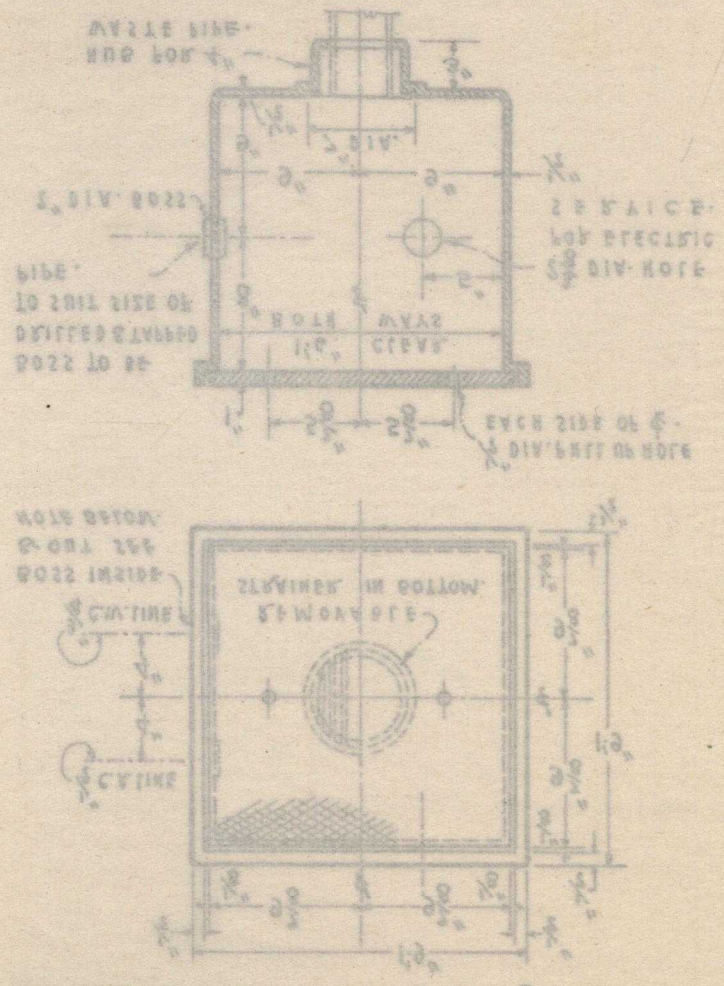
[LA GUARDIA FIELD STANDARD]



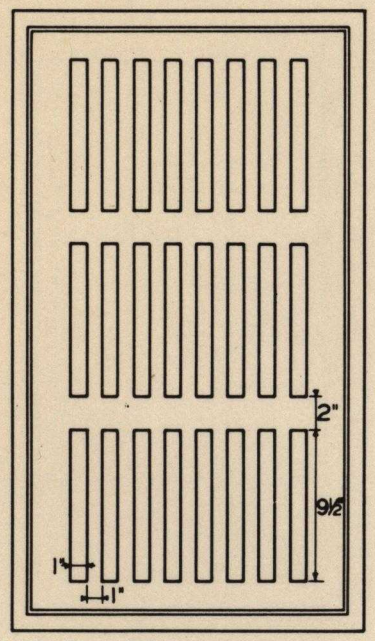
PATTERN No 181

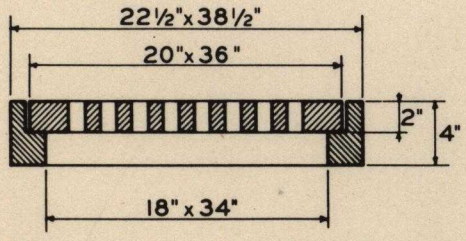
WEIGHT 320 LBS.

[NATIONAL AIRPORT, GRAVELLY POINT, VA. STANDARD]



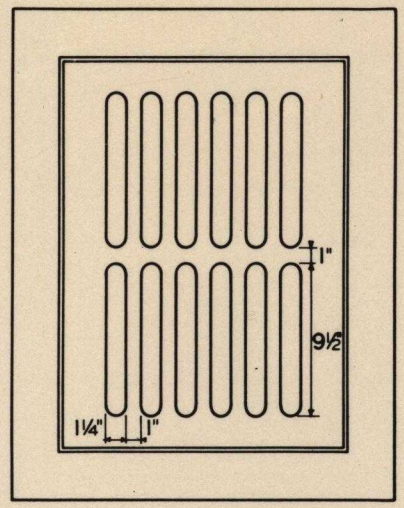
CAST IRON HEAVY CATCHBASIN FRAMES AND GRATES

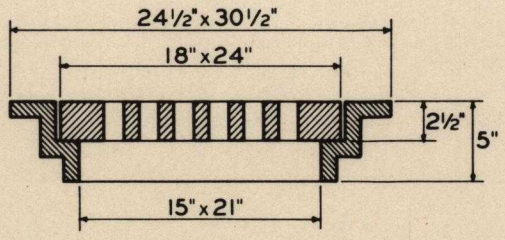




PATTERN NO. 495

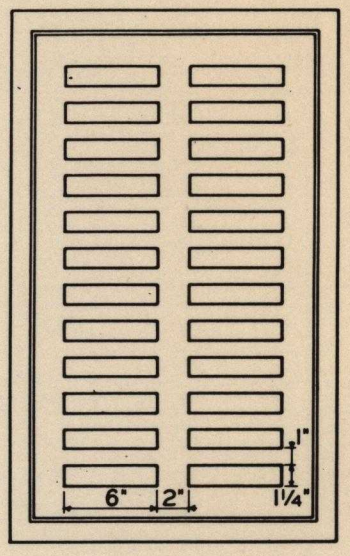
WEIGHT 450 LBS.

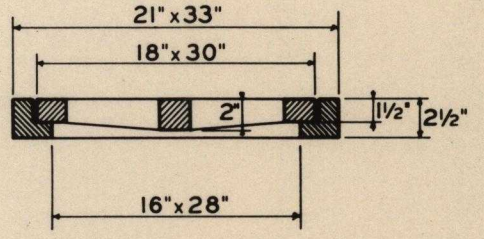




PATTERN NO. 362

WEIGHT 350 LBS.

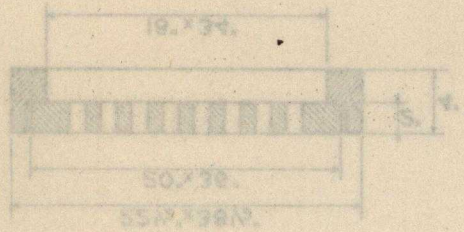




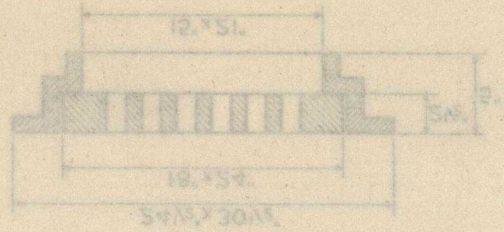
PATTERN NO. 333

WEIGHT 325 LBS.

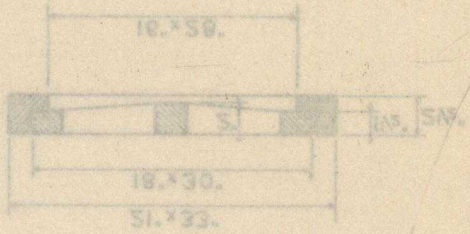
PATTERN NO. 488
WEIGHT 420 LBS.

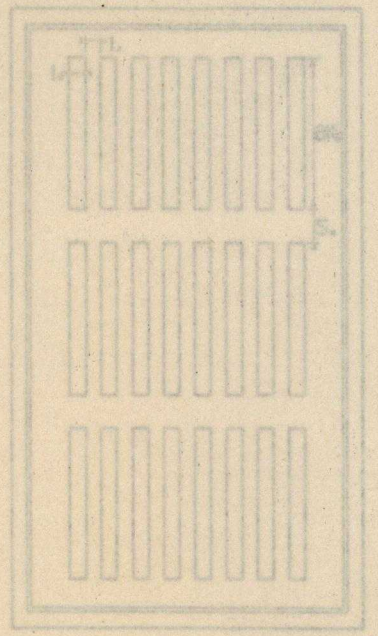


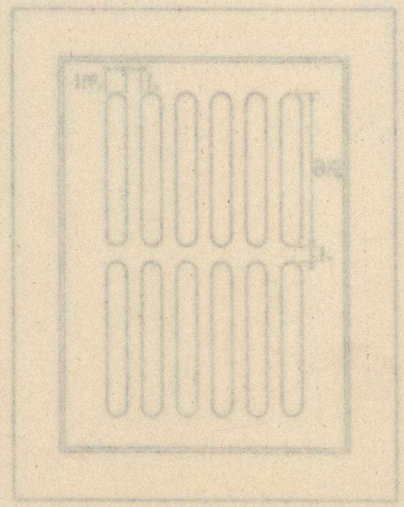
PATTERN NO. 385
WEIGHT 320 LBS.

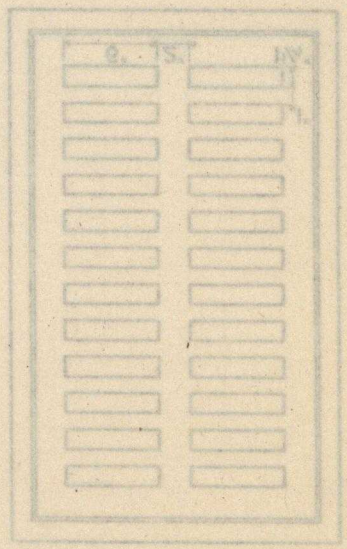


PATTERN NO. 333
WEIGHT 252 LBS.









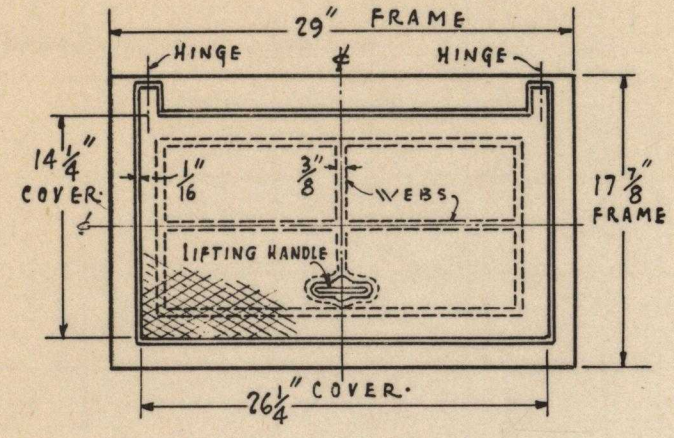
CAST IRON HEAVY CATCHBASIN FRAMES AND GRATES

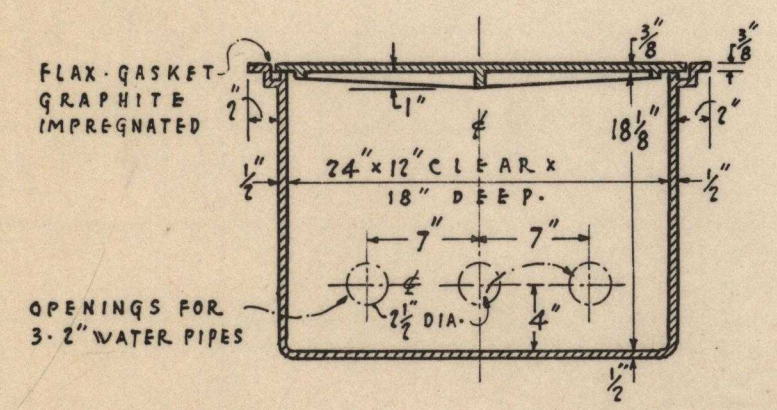
CAST IRON · BOXES FOR HANGAR APRONS · ETC.

[FURNISHED GALVANIZED UNLESS OTHERWISE SPECIFIED]

· WATER · CONTROL · BOX ·

[PLUMBING CONTRACT]





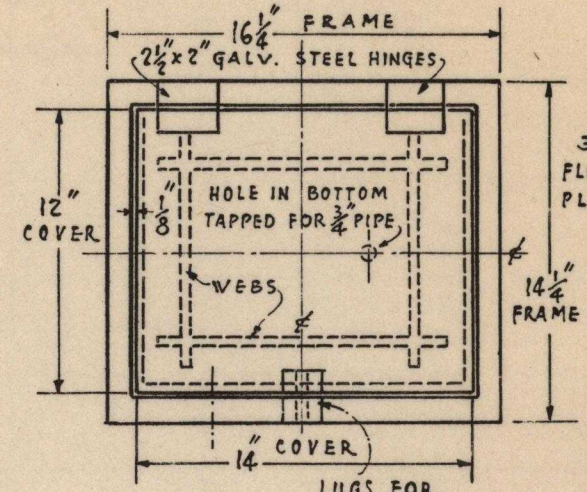
PATTERN Nº 782

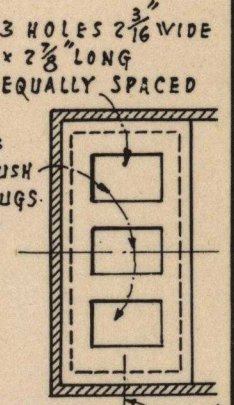
WEIGHT 370 LBS.

[LA GUARDIA FIELD STANDARD]

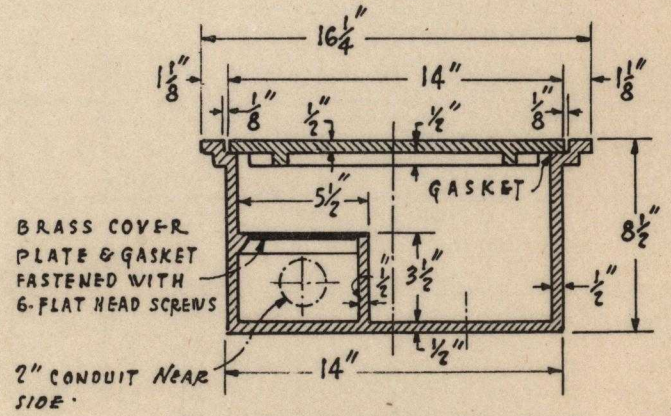
· OUTLET · BOX ·

[ELECTRICAL CONTRACT]





· BRASS COVER ·



PATTERN Nº 783

WEIGHT · 120 LBS.

[HICKAM FIELD STANDARD]

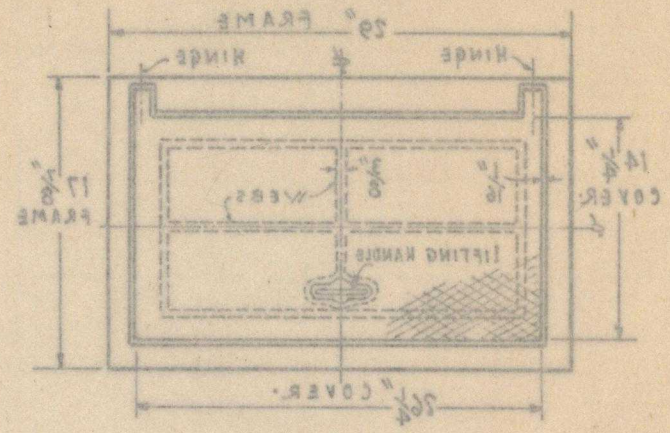
SIZE OF HOLES & LOCATIONS CAN BE MADE TO SUIT CONDITIONS.

CAST IRON · BOXES FOR HANGAR APRONS · ETC.

[FURNISHED GALVANIZED UNLESS OTHERWISE SPECIFIED]

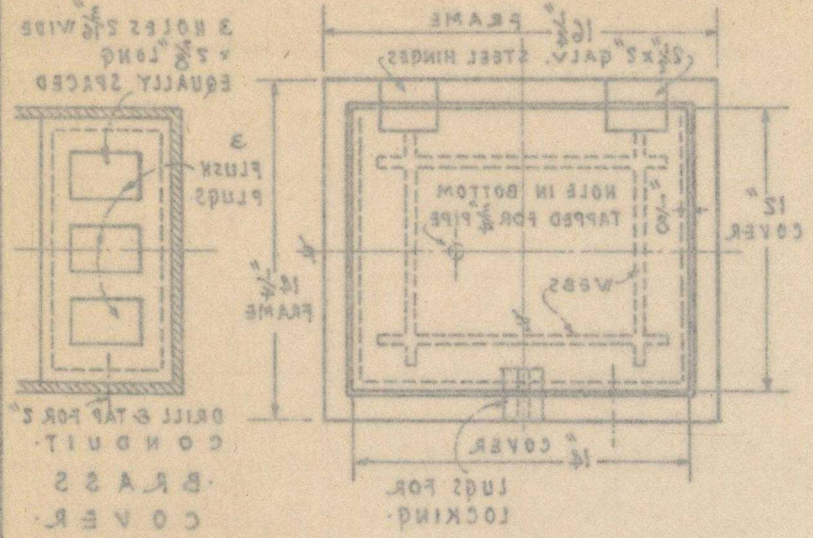
· WATER · CONTROL · BOX ·

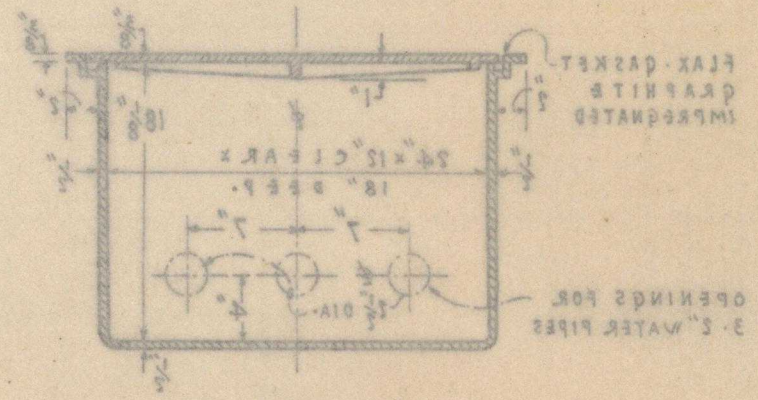
[PLUMBING CONTRACT]



· OUTLET · BOX ·

[ELECTRICAL CONTRACT]

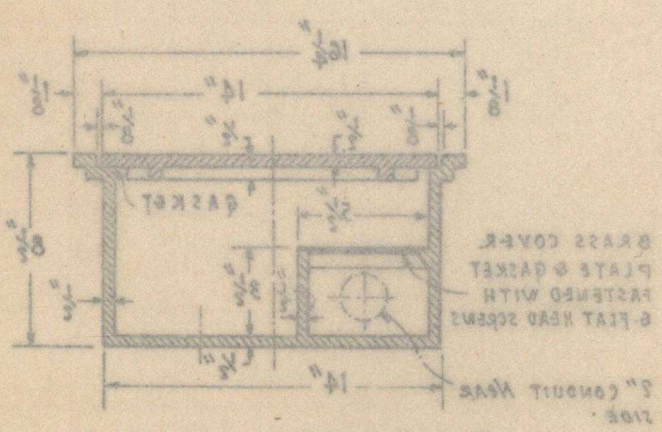




PATTERN No 782

WEIGHT 370 LBS.

[LA GUARDIA FIELD STANDARD]



PATTERN No 783

WEIGHT 120 LBS.

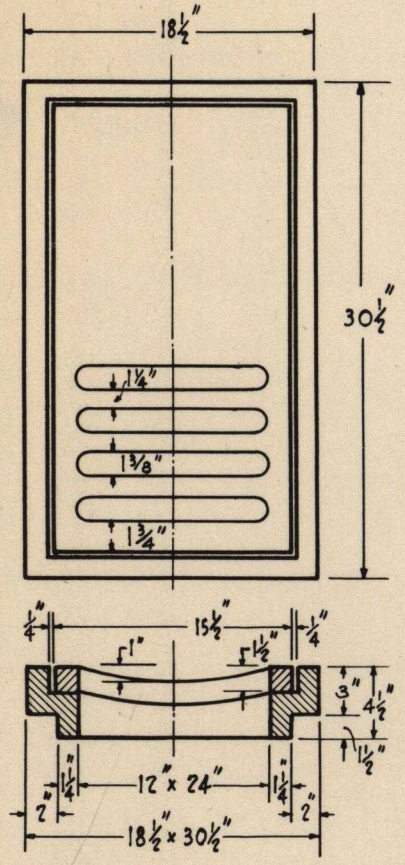
[NICKAM FIELD STANDARD]

SIZE OF HOLES & LOCATIONS CAN BE MADE TO SUIT CONDITIONS.

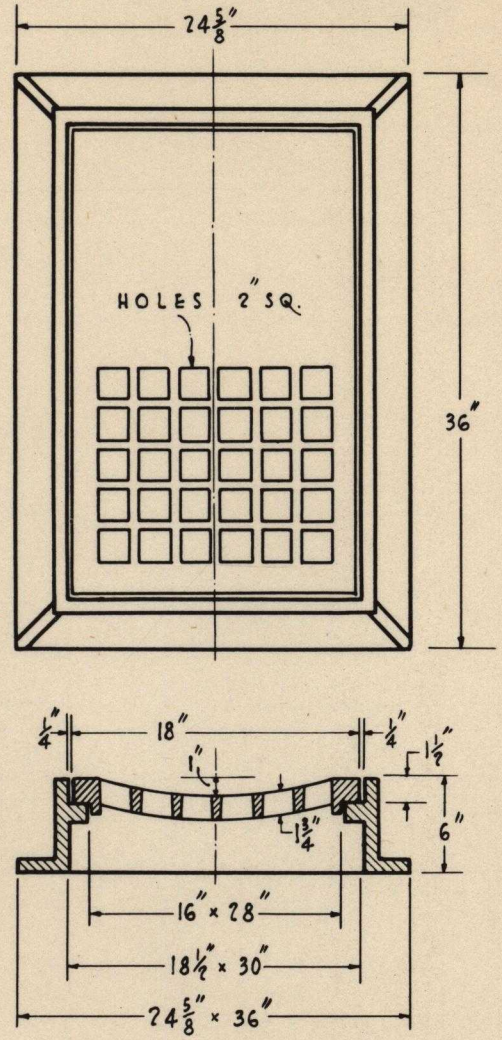
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET No 164

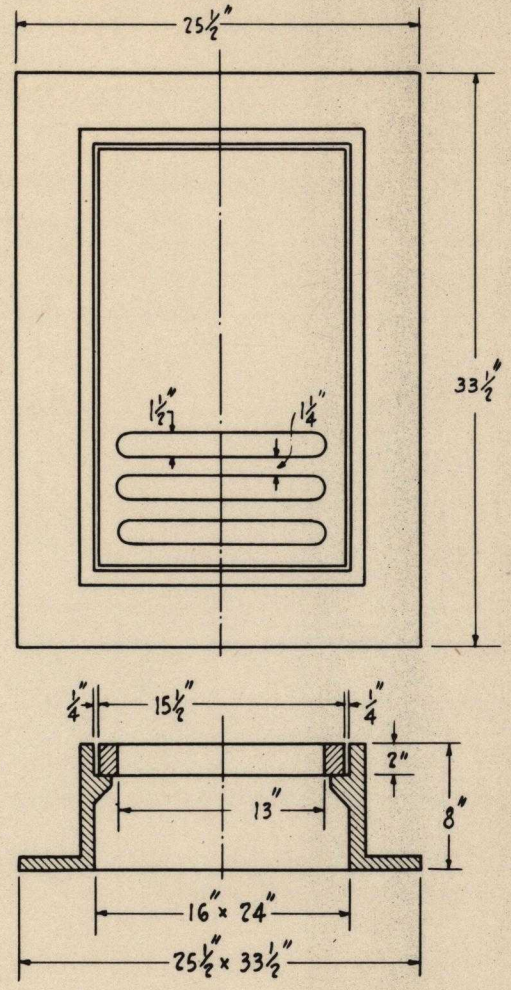
CAST IRON · HEAVY CATCH BASIN FRAMES & GRATINGS.



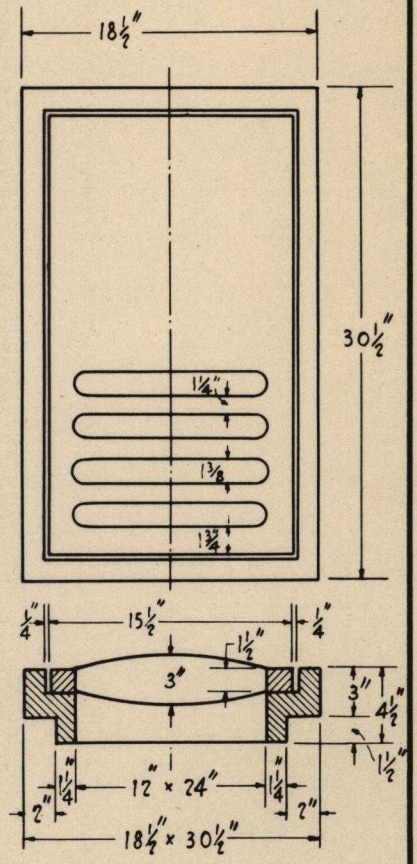
PATTERN Nº 399
WEIGHT 285 · LBS.



PATTERN Nº 369
WEIGHT 400 · LBS.



PATTERN Nº 398
WEIGHT 400 · LBS.

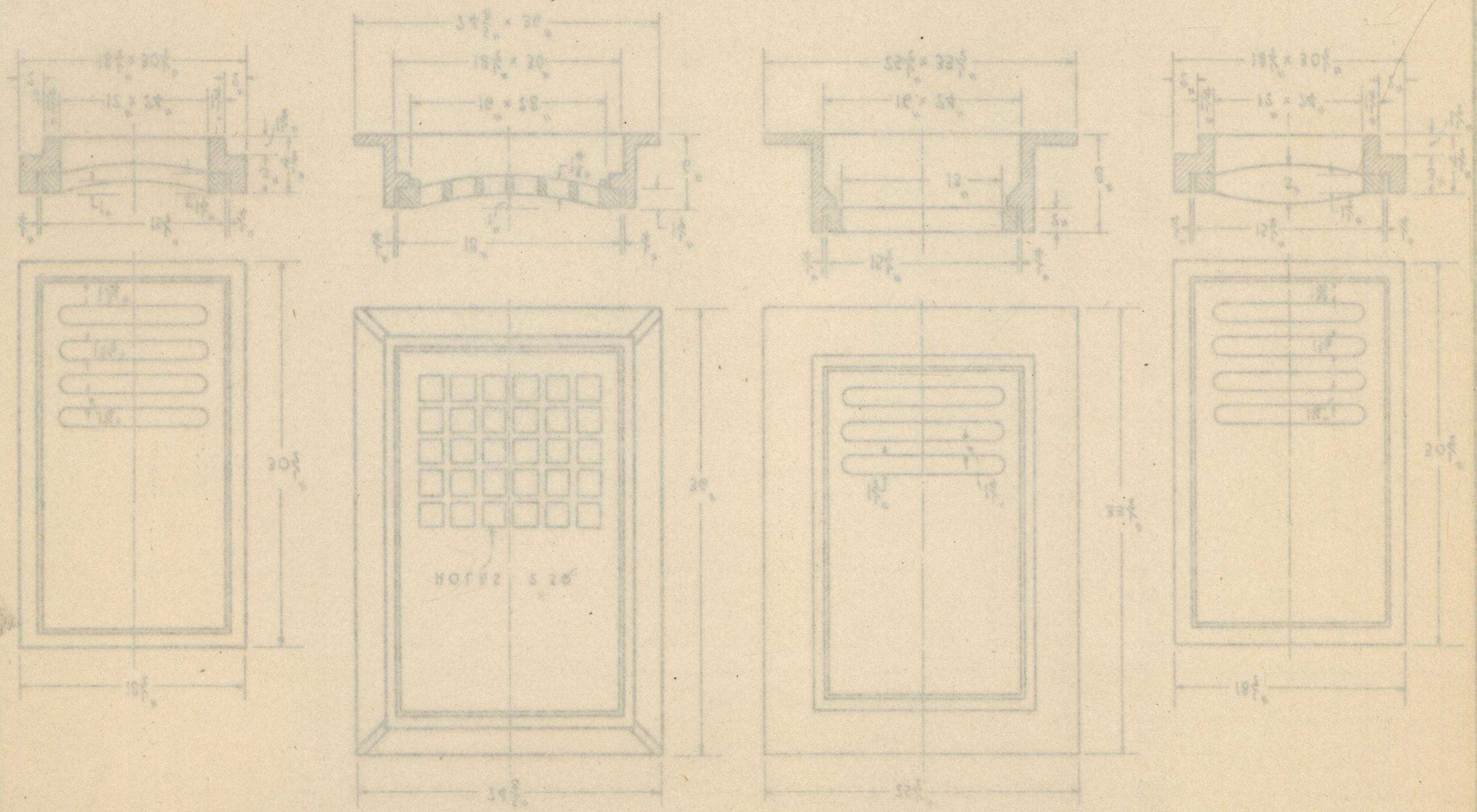


PATTERN Nº 307
WEIGHT 315 · LBS.

CONTRACTORS FOUNDRY, PHILA., PA.

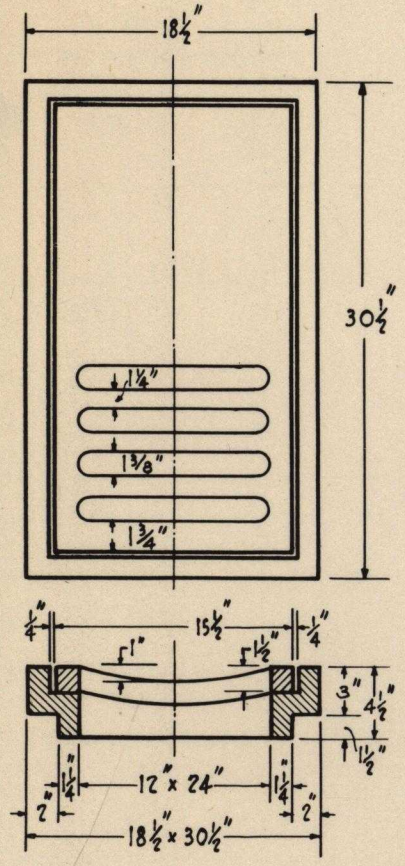
DATA SHEET Nº 164

3-1-48

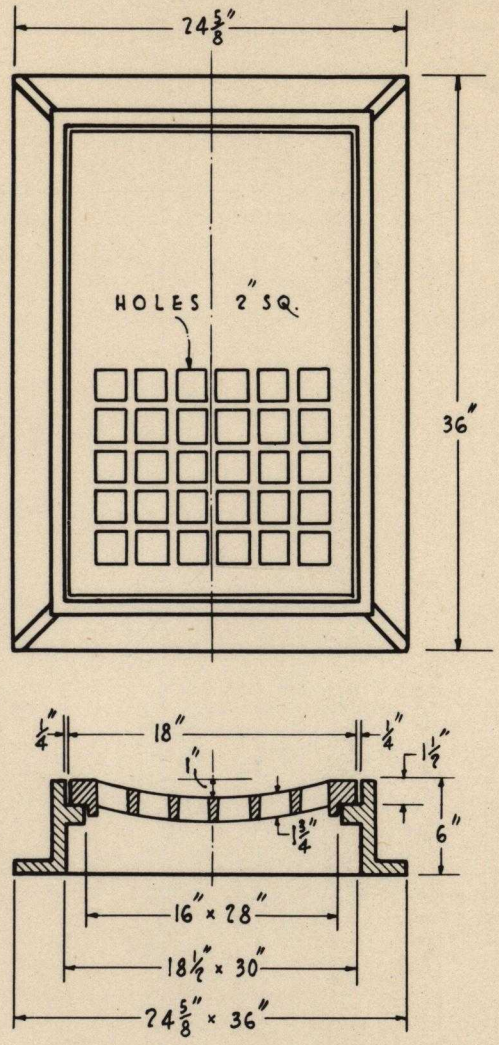


CAST IRON HEAVY CATCH BASIN FRAMES & GRATINGS

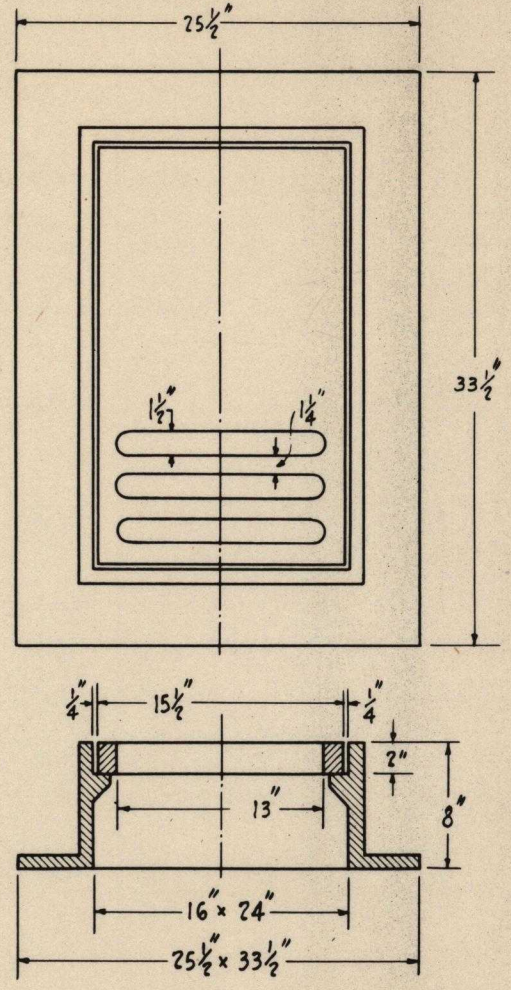
CAST IRON · HEAVY CATCH BASIN FRAMES & GRATINGS.



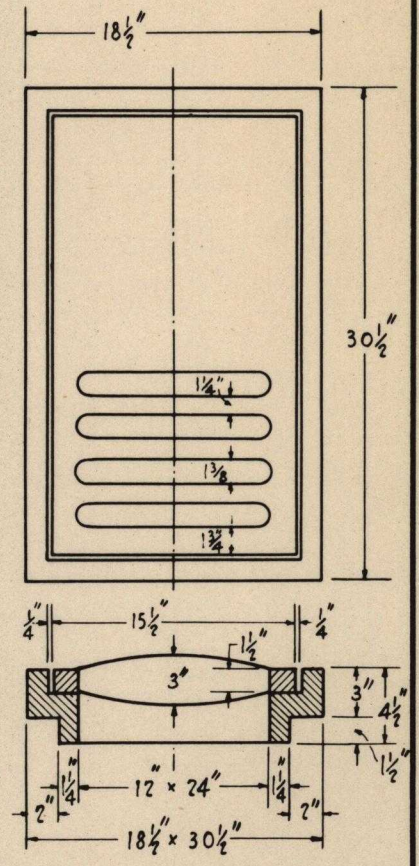
PATTERN Nº 399
WEIGHT 285·LBS.



PATTERN Nº 369
WEIGHT 400·LBS.



PATTERN Nº 398
WEIGHT 400·LBS.



PATTERN Nº 307
WEIGHT 315·LBS.

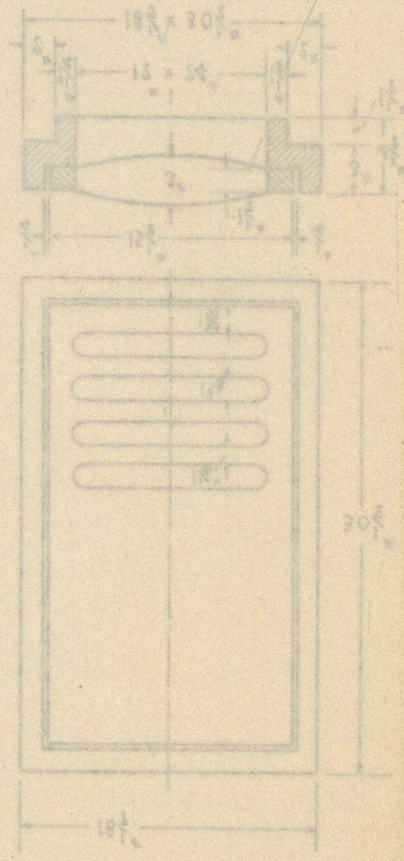
CONTRACTORS FOUNDRY, PHILA., PA.

DATA SHEET Nº 164

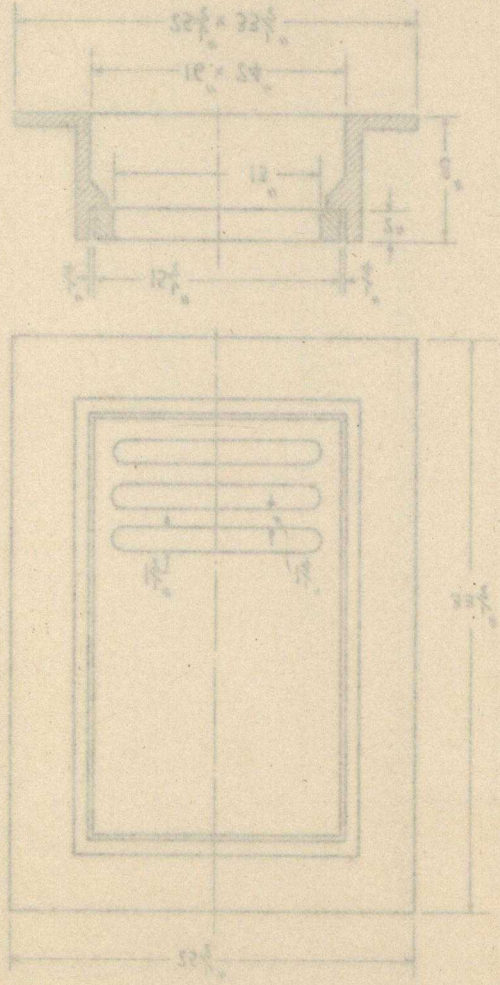
3-1-48

CAST IRON HEAVY CATCH BASIN FRAMES & GRATINGS

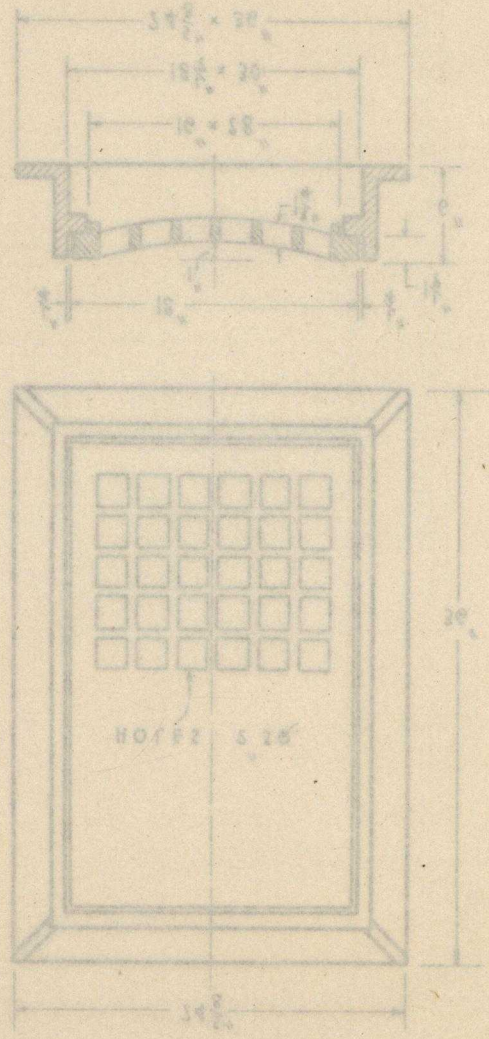
PATTERN No. 301
WEIGHT 315 LBS.



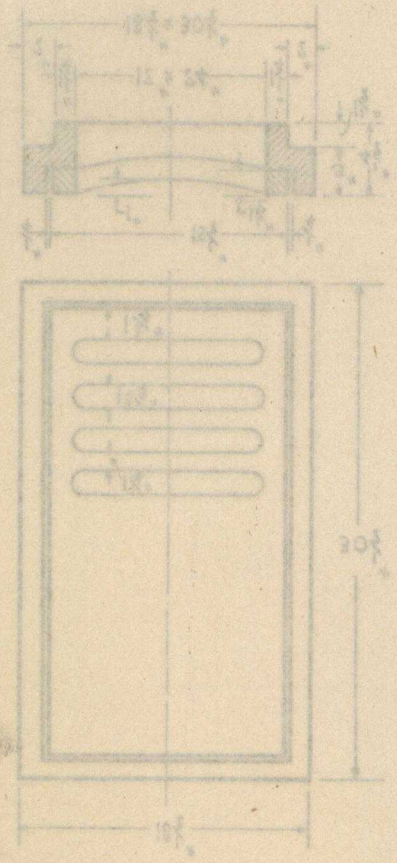
PATTERN No. 398
WEIGHT 400 LBS.



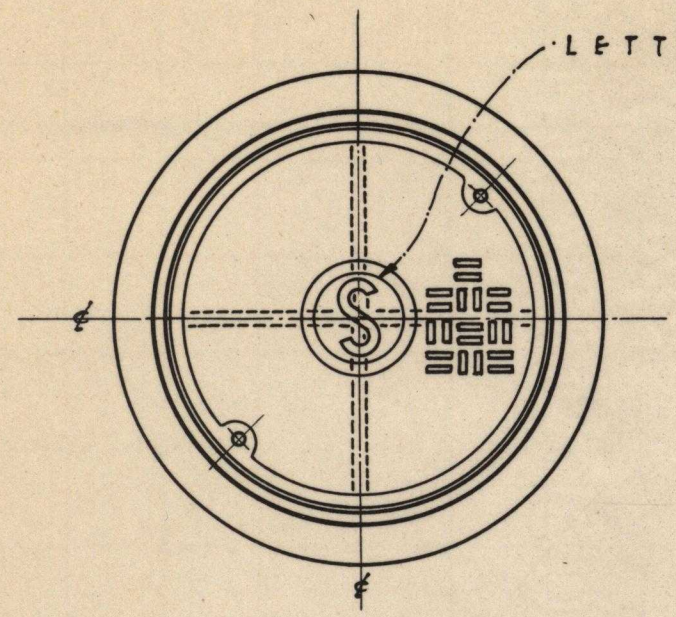
PATTERN No. 399
WEIGHT 400 LBS.



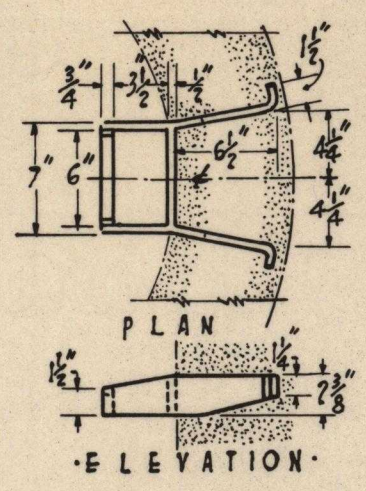
PATTERN No. 299
WEIGHT 285 LBS.



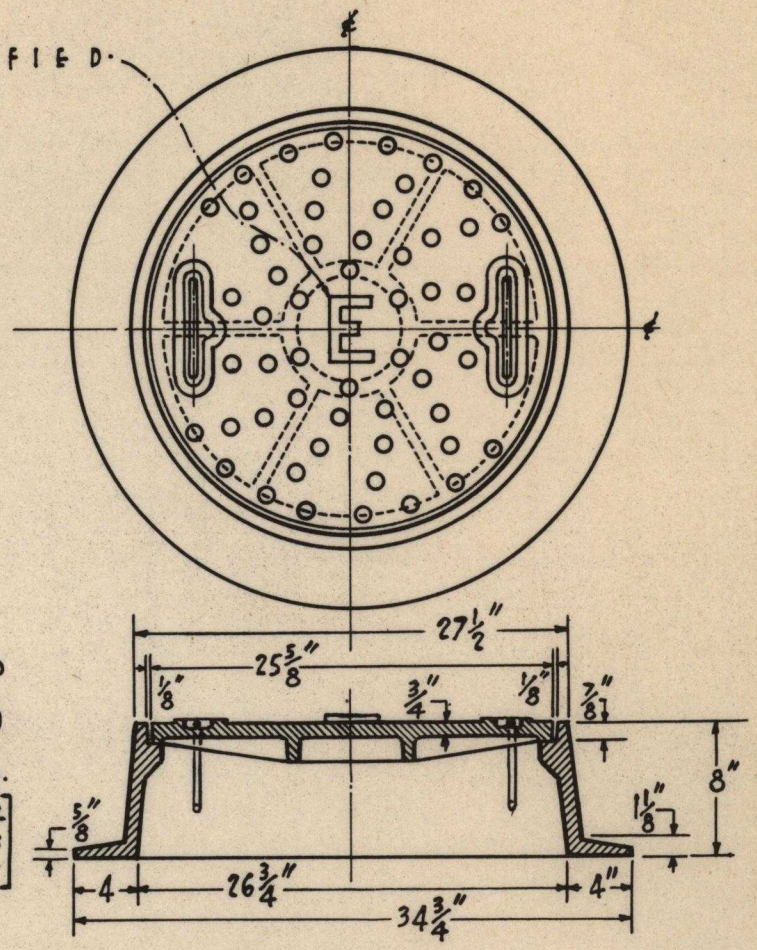
CAST IRON HEAVY MANHOLE FRAMES & COVERS.



PATTERN Nº 99
WEIGHT 425 LBS.
[STANDARD FOR U.S. MILITARY ACADEMY WEST POINT]

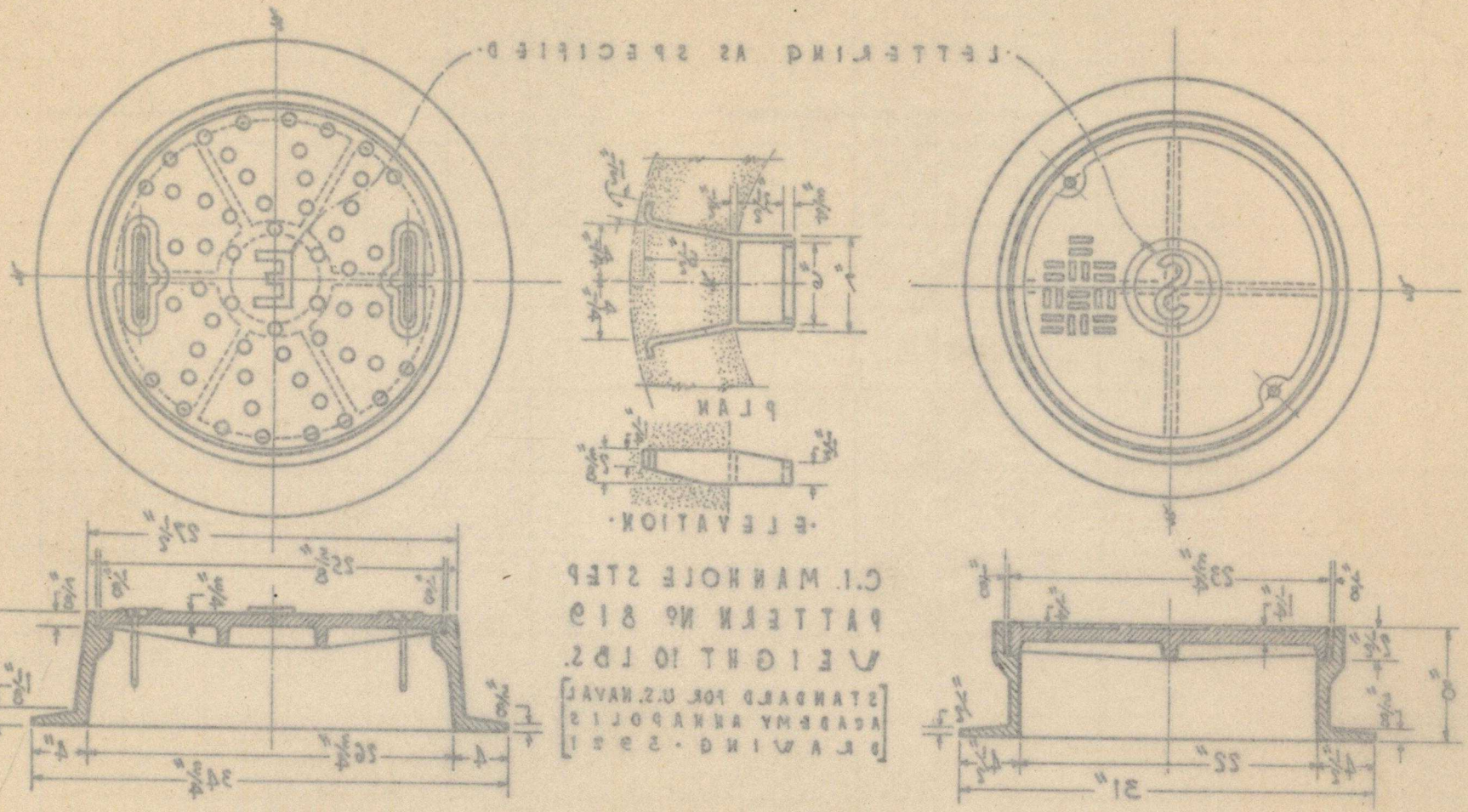


C.I. MANHOLE STEP
PATTERN Nº 819
WEIGHT 10 LBS.
[STANDARD FOR U.S. NAVAL ACADEMY ANNAPOLIS DRAWING · 5921]



PATTERN Nº 89
WEIGHT 400 LBS.
[STANDARD FOR U.S. NAVAL ACADEMY ANNAPOLIS DRG. 5909]

CAST IRON HEAVY MANHOLE FRAMES & COVERS.



C.I. MANHOLE STEP
PATTERN Nº 819
WEIGHT 10 LBS.
[STANDARD FOR U.S. NAVAL ACADEMY ANNAPOLIS DRAWING · 5931]

PATTERN Nº 89
WEIGHT 400 LBS.
[STANDARD FOR U.S. NAVAL ACADEMY ANNAPOLIS DRG. 5909]

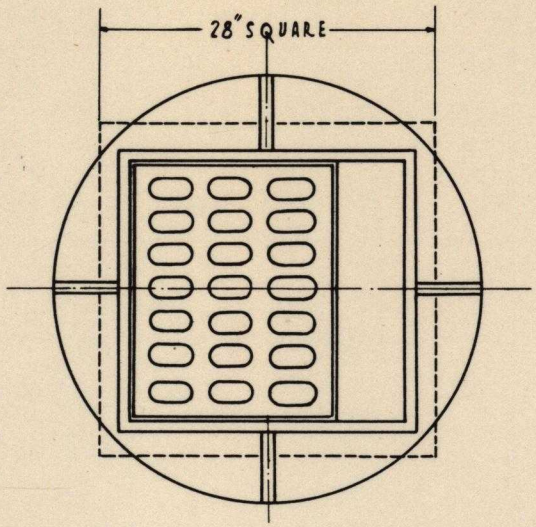
PATTERN Nº 99
WEIGHT 425 LBS.
[STANDARD FOR U.S. MILITARY ACADEMY WEST POINT]

CONTRACTORS FOUNDRY INC., PHILA., PA.

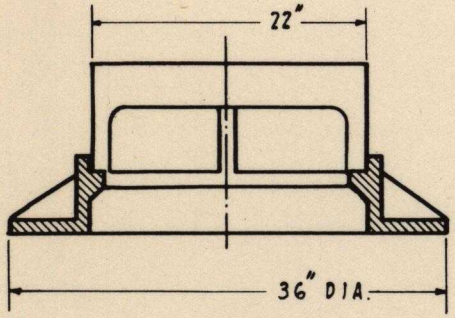
DATA SHEET Nº 165

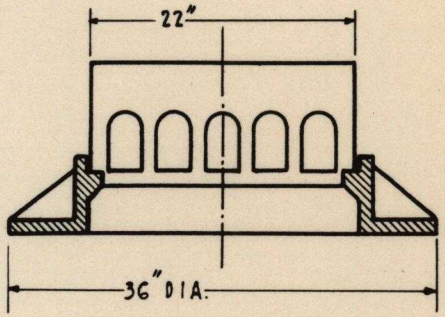
CAST IRON · HIGHWAY INLET FRAMES & GRATINGS.

· WITH ADJUSTABLE HOODS ·

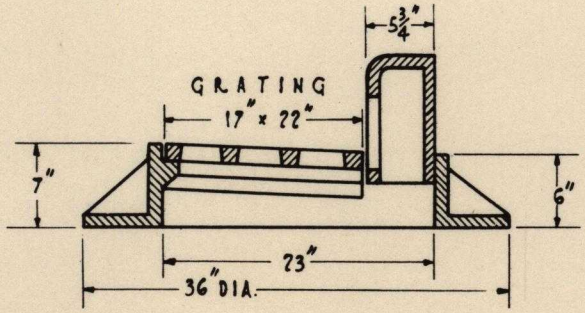


· PLAN VIEW ·





PATT. Nº	WEIGHT	TYPE OF BASE
770	375	ROUND FLANGE
772	350	SQUARE FLANGE



ELEVATION

PATT. Nº	WEIGHT	TYPE OF BASE
771	385	ROUND FLANGE
773	360	SQUARE FLANGE

PATTERN Nº 770 · 771 · 772 & 773.

CONTRACTORS FOUNDRY, PHILA., PA.

DATA SHEET Nº 167

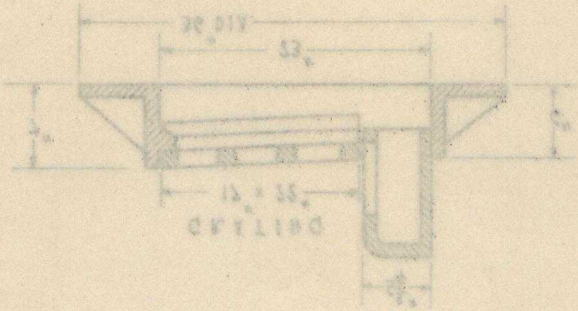
3-1-48

PATTERN No 770-771-772 & 773

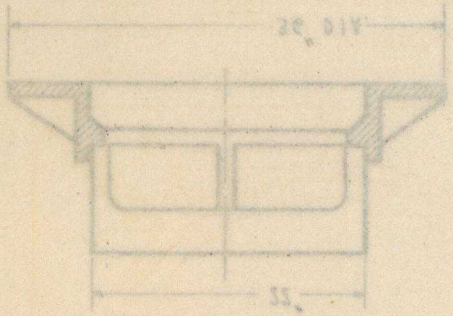
PATTERN	WEIGHT	TYPE OF FRAME
770	95#	ROUND FRAME
772	250	SQUARE FRAME

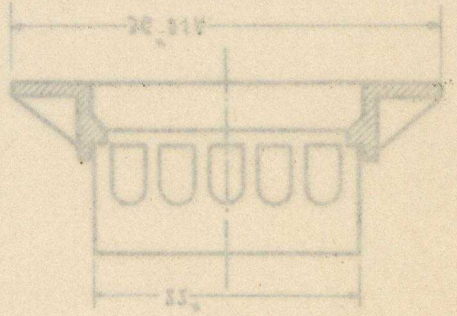
PATTERN	WEIGHT	TYPE OF FRAME
771	98#	ROUND FRAME
773	260	SQUARE FRAME

ELEVATION

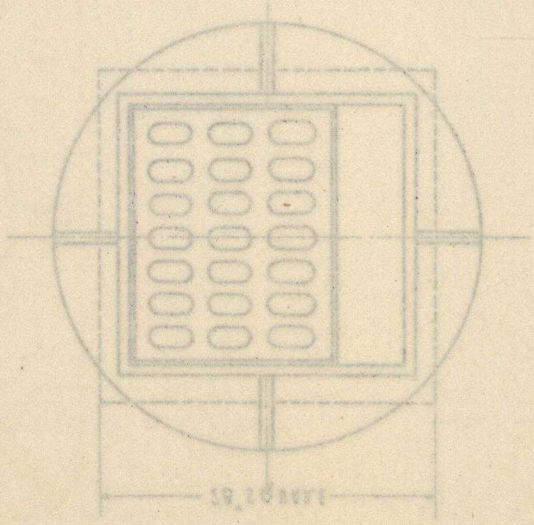


GRATING





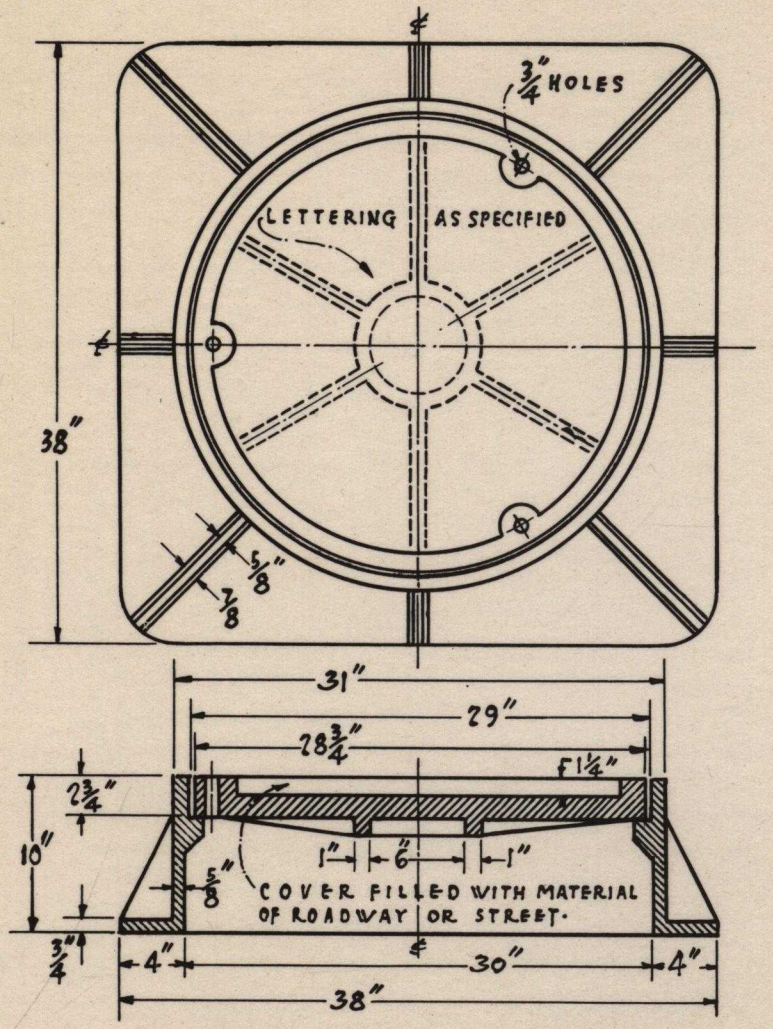
PLAN VIEW



CAST IRON · HIGHWAY INLET FRAMES & GRATINGS

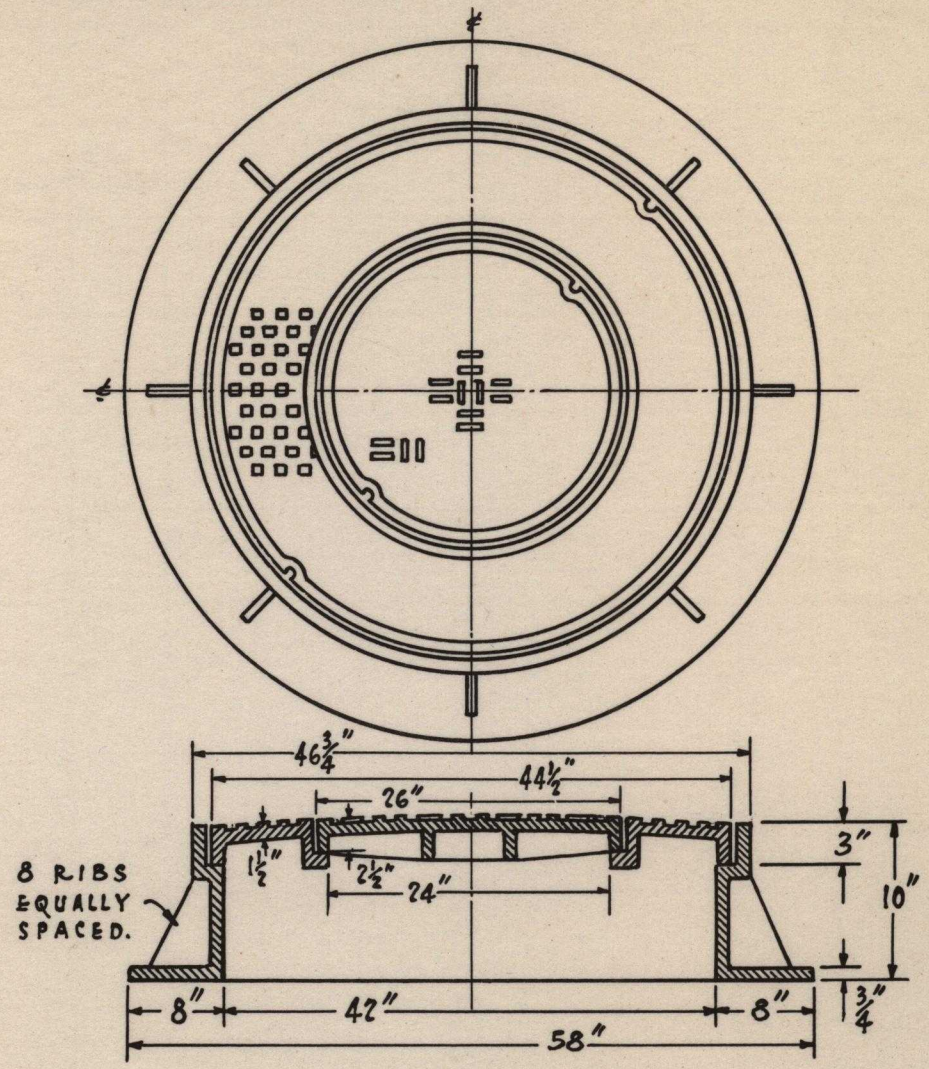
WITH ADJUSTABLE HOODS

CAST IRON · MANHOLE FRAMES & COVERS·



PATTERN No 488
WEIGHT 730 LBS.

[IN ACCORDANCE WITH NAVY DEPT. DETAILS TYPE A PLATE No 14 9YE.]



PATTERN No 489
WEIGHT 1500 LBS.

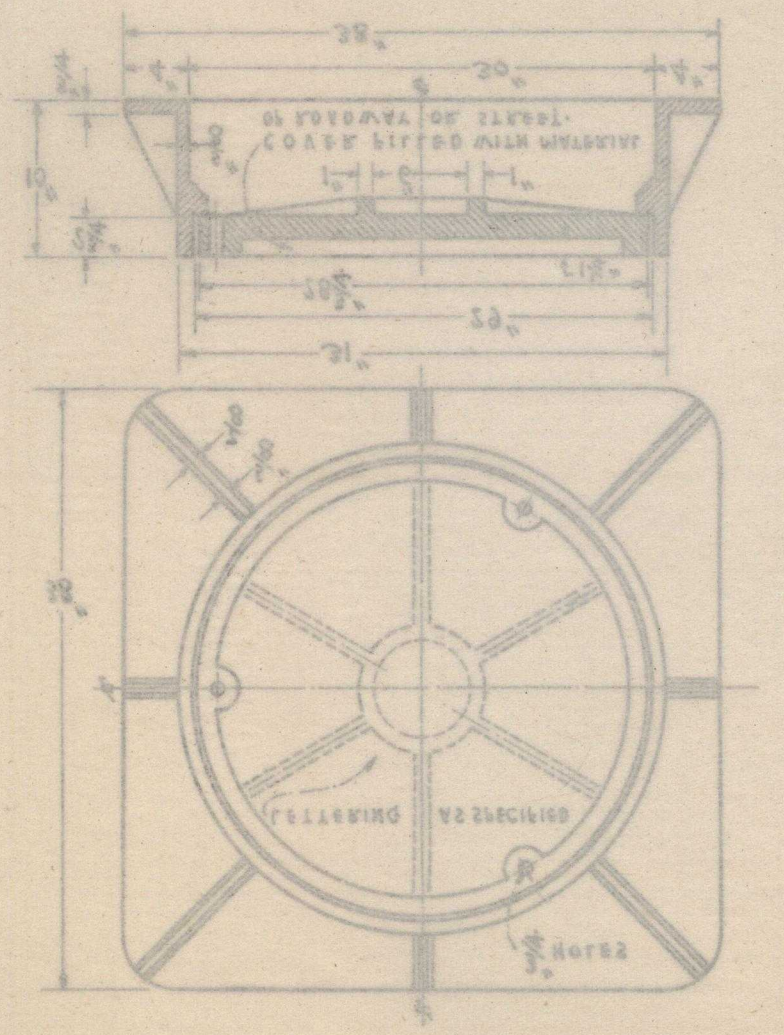
[IN ACCORDANCE WITH NAVY DEPT. DETAILS TYPE A PLATE No 16 9YE]

CONTRACTORS FOUNDRY INC., PHILA., PA.

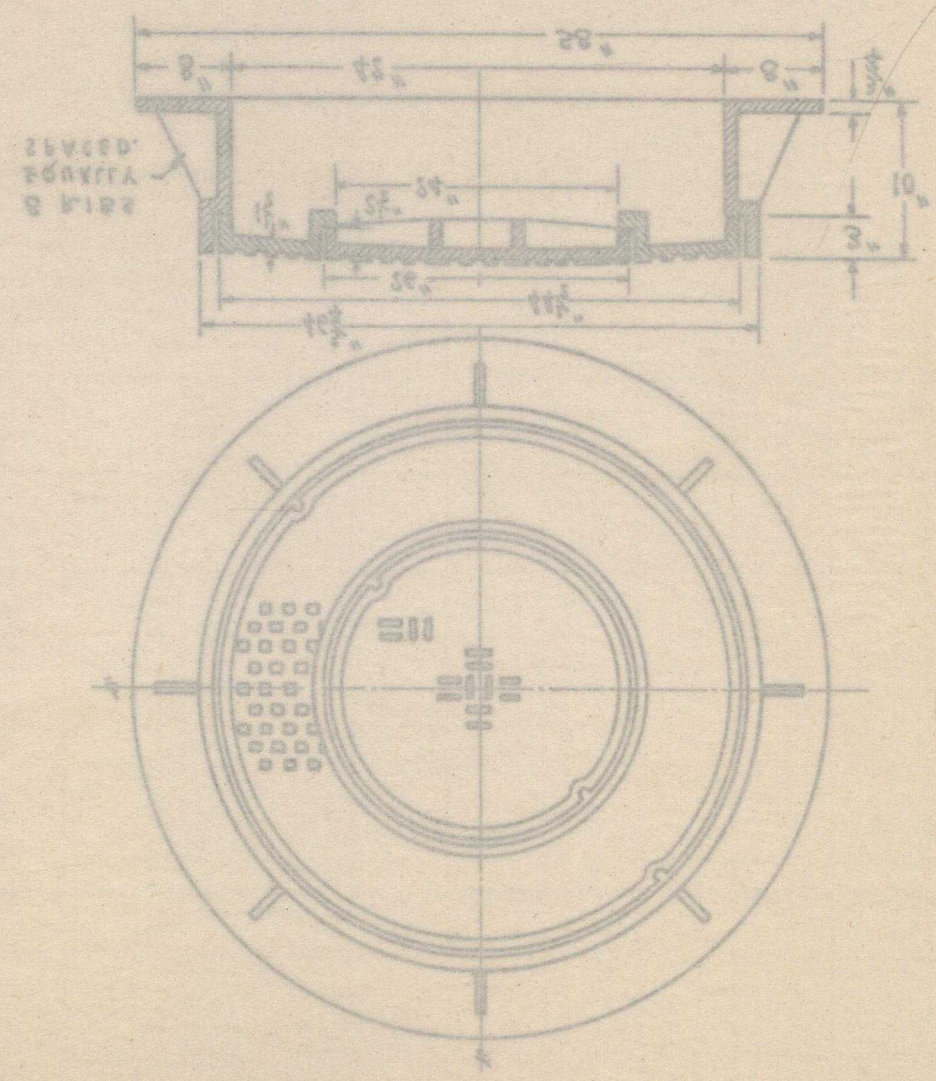
DATA SHEET No 169

CAST IRON · MANHOLE FRAMES & COVERS.

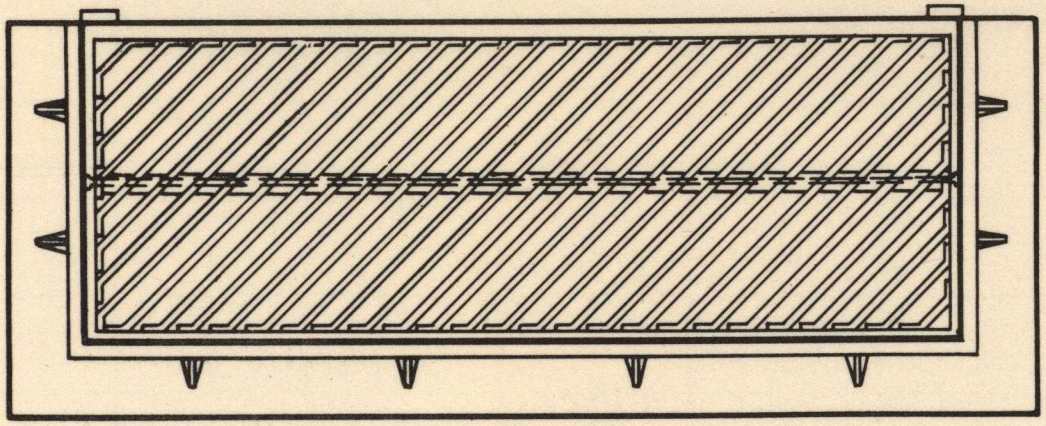
PATTERN No 488
WEIGHT 290 LBS.
[IN ACCORDANCE WITH NAVY DEPT. DETAILS TYPE A
DATE No 14 GAP.]



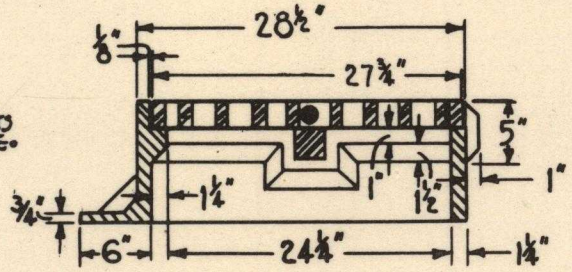
PATTERN No 489
WEIGHT 1500 LBS.
[IN ACCORDANCE WITH NAVY DEPT. DETAILS TYPE A
DATE No 10 GAP.]



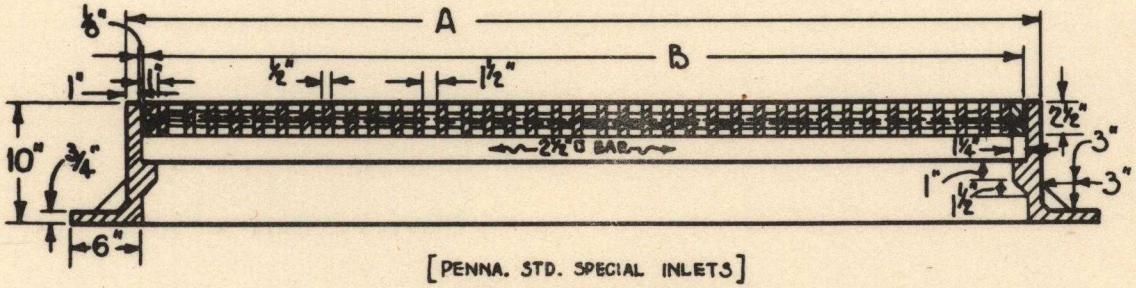
CAST IRON · CATCH BASIN FRAMES & WROUGHT IRON GRATINGS ·



GRATE BARS RIVETED TO FRAME - 3/8" CSK. RIVETS
RIVET HEADS CSK. ON OUTER FACE OF FRAME.



5/8"ϕ WROUGHT IRON BAR THROUGH
GRATE BARS WITH PIPE SEPARATORS.



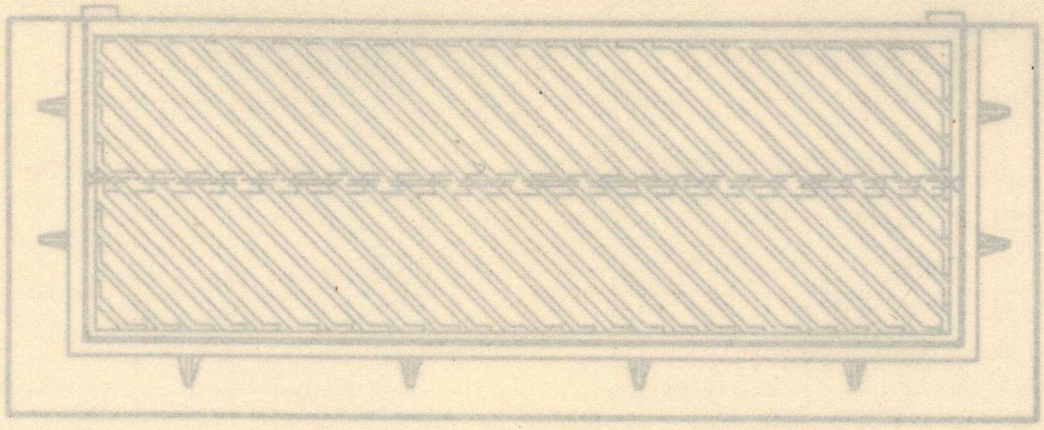
[PENNA. STD. SPECIAL INLETS]

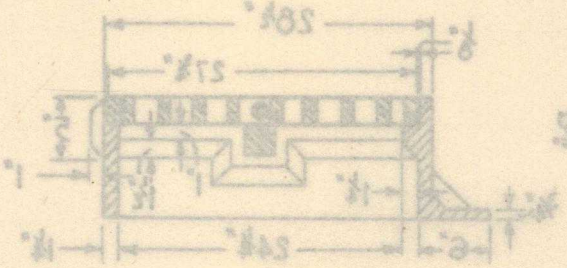
PATTERN Nº	A	B	WEIGHT
305	50	47 3/4	1000
306	76 3/4	74 1/2	1400

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 170

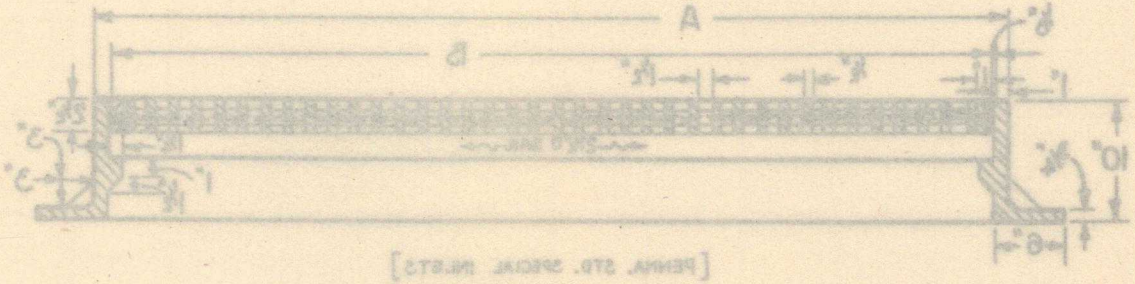
CAST IRON · CATCH BASIN FRAMES & WROUGHT IRON GRATINGS ·





⅝" WROUGHT IRON BAR, THROUGH GRATE BARS WITH PIPE SEPARATORS.

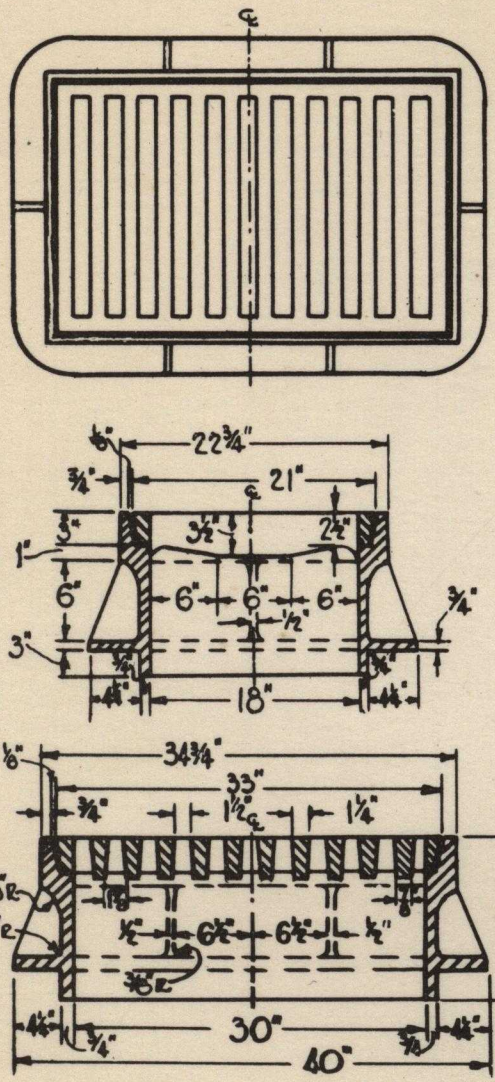
GRATE BARS RIVETED TO FRAME - ⅝" CSK. RIVETS RIVET HEADS CSK. ON OUTER FACE OF FRAME.



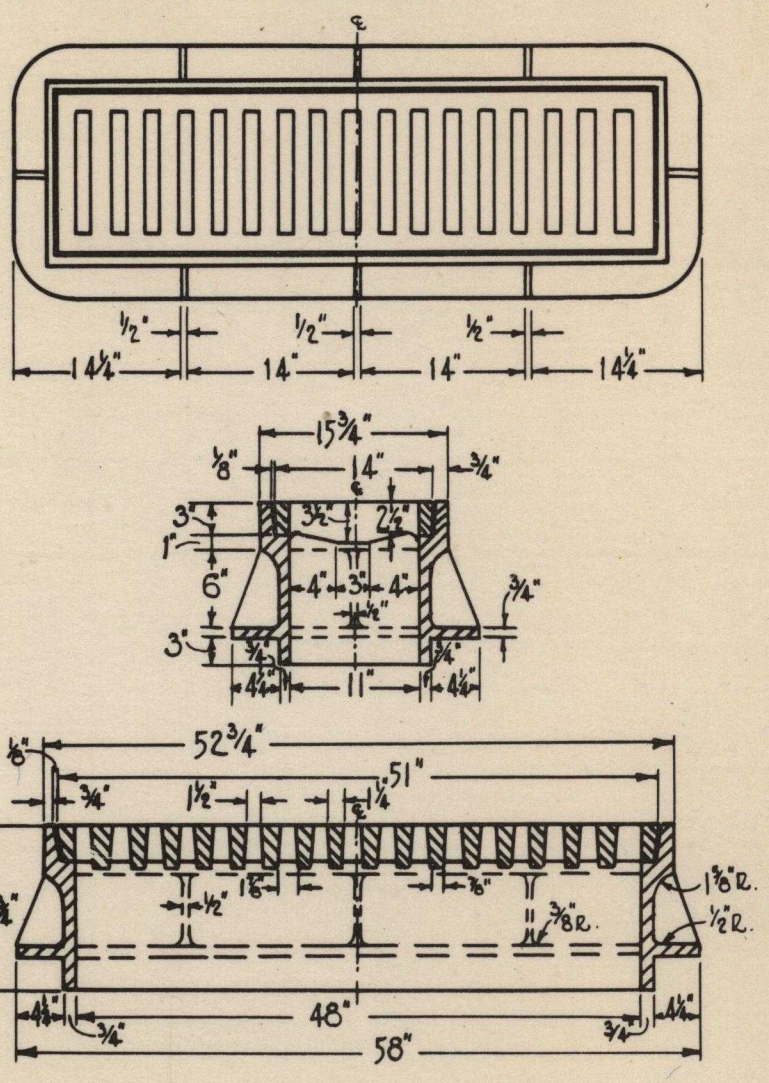
[PENNA. STD. SPECIAL INLETS]

PATTERN Nº	A	B	WEIGHT
305	50	27½	1000
306	28½	24½	1400

CAST IRON · HEAVY HIGHWAY FRAMES & GRATES



PATTERN Nº 310
WEIGHT 775 · LBS.
[PENNA. HIGHWAY INLET · STANDARD · TYPE D]



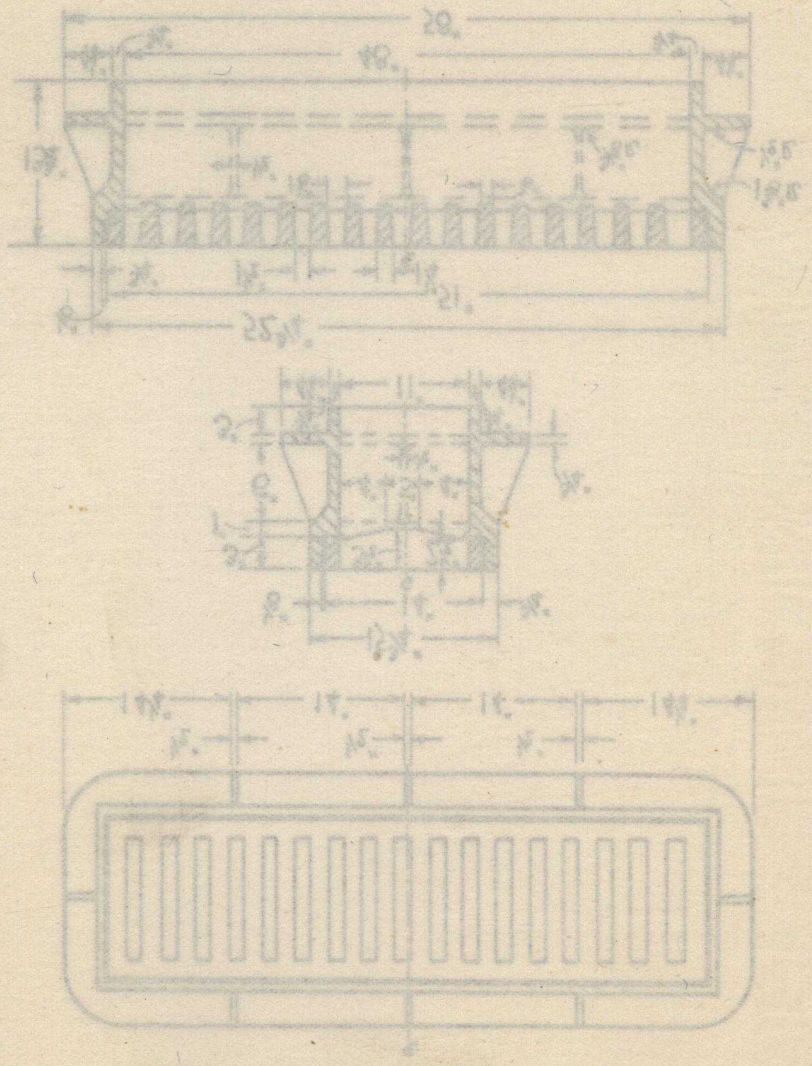
PATTERN Nº 316
WEIGHT 880 · LBS.
[PENNA. · HIGHWAY INLET · STANDARD · TYPE G]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 171

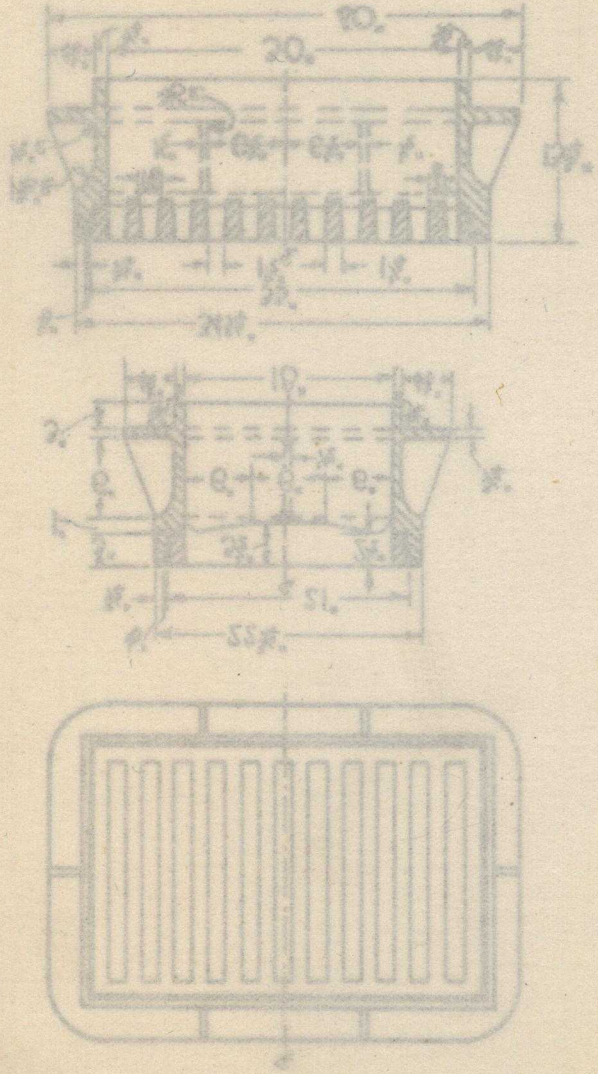
[PENNA. HIGHWAY INLET - STANDARD - TYPE 6]

WEIGHT 880 LBS.
PATTERN No 216



[PENNA. HIGHWAY INLET - STANDARD - TYPE 8]

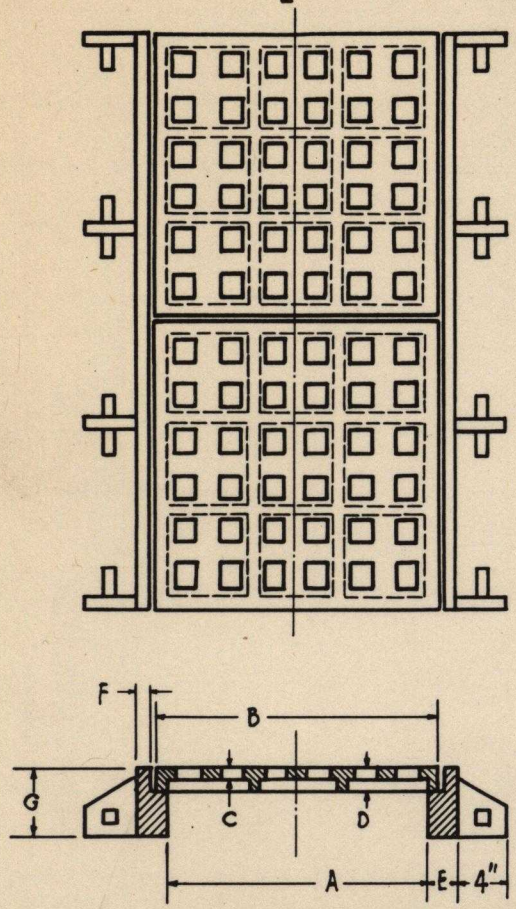
WEIGHT 775 LBS.
PATTERN No 210



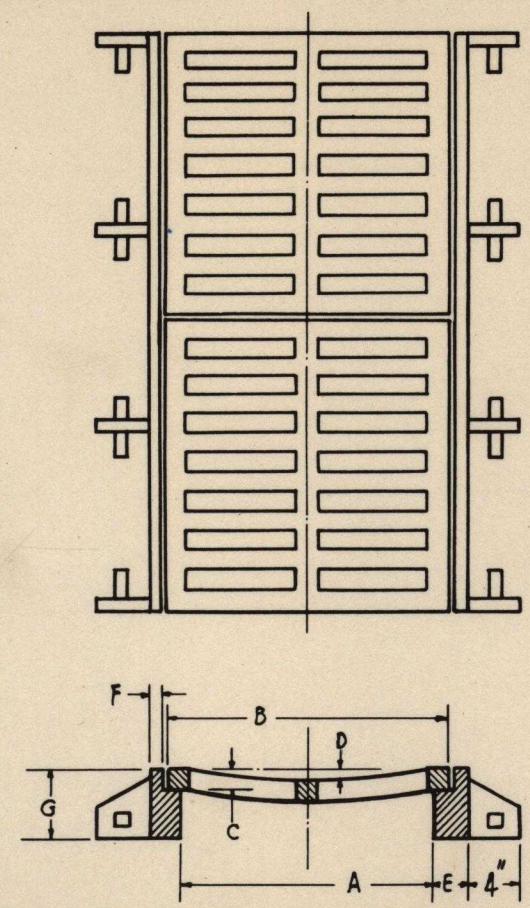
CAST IRON - HEAVY HIGHWAY FRAMES & GRATES

CAST IRON · TRENCH GRATINGS & FRAMES FOR HEAVY TRAFFIC

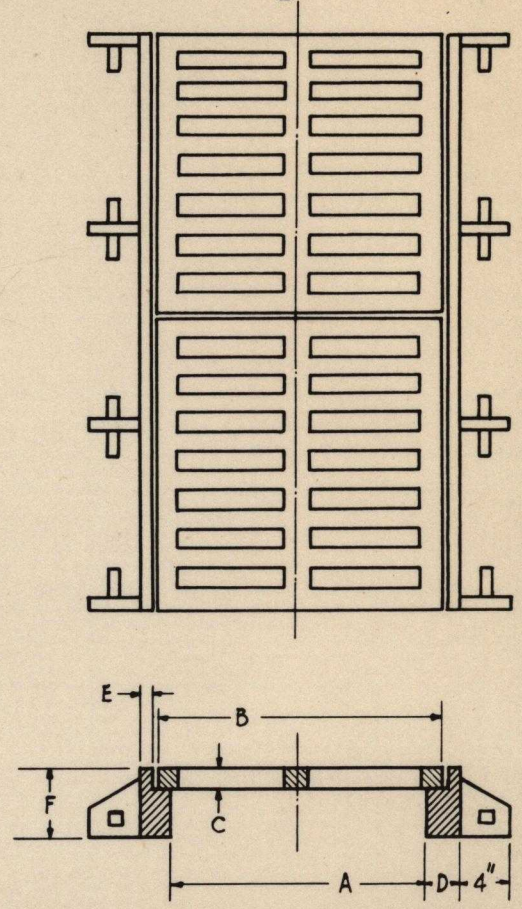
[GRATINGS FURNISHED WITHOUT FRAMES IF DESIRED.]



PATT. Nº	A	B	C	D	E	F	G	OPENINGS
950	8"	10"	1"	2"	1⅝"	½"	4"	1" × 2"
951	10"	12"	1"	2"	1⅝"	½"	4"	1" × 2"
952	12"	14"	1¼"	2¼"	1¾"	⅝"	4¼"	1" × 2"
953	15"	17"	1¼"	2¼"	1¾"	⅝"	4¼"	1¼" × 2¼"
954	18"	20"	1¼"	2½"	1⅞"	¾"	4½"	1¼" × 2¼"
955	24"	26"	1¼"	2½"	1⅞"	¾"	4½"	2" × 2½"
956	30"	32"	1½"	3"	2⅛"	1"	5"	2" × 3"



PATT. Nº	A	B	C	D	E	F	G	OPENINGS
960	8"	10"	1½"	¾"	1⅝"	½"	3½"	1" × 3"
961	10"	12½"	1½"	¾"	1⅞"	½"	3½"	1" × 4"
962	12"	14½"	1¾"	1"	2"	⅝"	3¾"	1¼" × 5"
963	15"	18"	1¾"	1¼"	2¼"	⅝"	3¾"	1¼" × 6½"
964	18"	21"	1¾"	1½"	2⅜"	¾"	3¾"	1½" × 8"
965	24"	27"	2"	2"	2⅜"	¾"	4"	1¾" × 10¾"
966	30"	34"	2½"	2¼"	3⅛"	1"	5"	2" × 13¼"



PATT. Nº	A	B	C	D	E	F	·	OPENINGS
970	8"	10"	1½"	1⅝"	½"	3½"	·	1" × 3"
971	10"	12½"	1½"	1⅞"	½"	3½"	·	1" × 4"
972	12"	14½"	1¾"	2"	⅝"	3¾"	·	1¼" × 5"
973	15"	18"	1¾"	2¼"	⅝"	3¾"	·	1¼" × 6½"
974	18"	21"	1¾"	2⅜"	¾"	3¾"	·	1½" × 8"
975	24"	27"	2"	2⅜"	¾"	4"	·	1¾" × 10¾"
976	30"	34"	2½"	3⅛"	1"	5"	·	2" × 13¼"

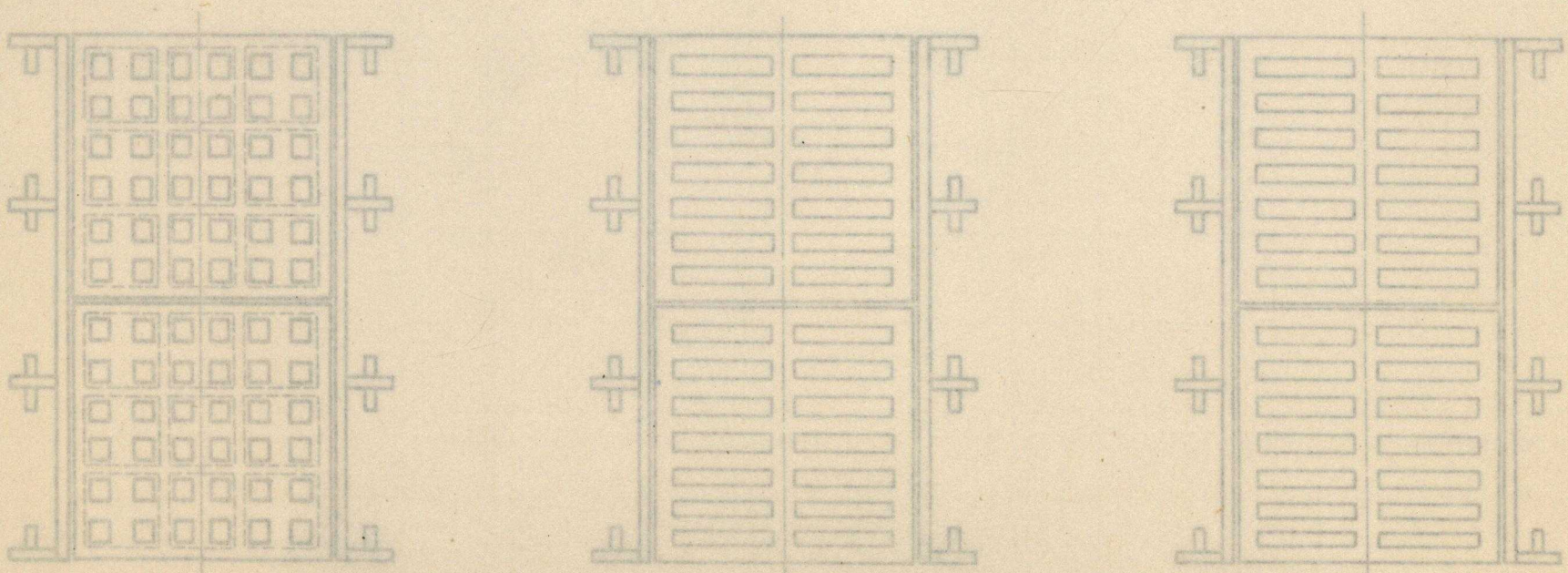
CONTRACTORS FOUNDRY, PHILA. PA.

DATA SHEET Nº 171

3-1-48

CAST IRON · TRENCH GRATINGS & FRAMES FOR HEAVY TRAFFIC

[GRATINGS FURNISHED WITHOUT FRAMES IF DESIRED]



OPENINGS	F	E	D	C	B	A	PATT. No
1" × 2"	3/4"	3/4"	1/2"	1"	10"	8"	050
1" × 4"	3/4"	3/4"	1/2"	1"	10 1/2"	10"	151
1" × 6"	3/4"	3/4"	1/2"	1"	14 1/2"	12"	252
1" × 8"	3/4"	3/4"	1/2"	1"	18 1/2"	14"	353
1" × 9"	3/4"	3/4"	1/2"	1"	21"	15"	454
1" × 10"	3/4"	3/4"	1/2"	1"	23"	16"	555
1" × 12"	3/4"	3/4"	1/2"	1"	27"	18"	656

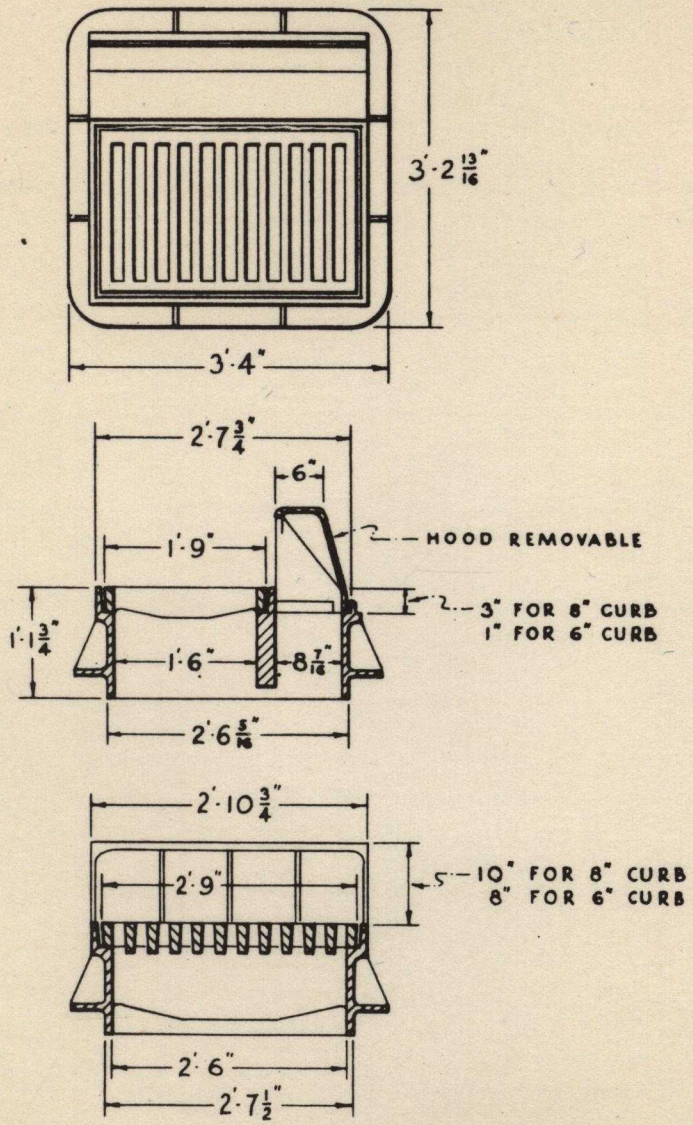
OPENINGS	F	E	D	C	B	A	PATT. No
1" × 3"	3/4"	3/4"	1/2"	1"	8"	10"	060
1" × 4"	3/4"	3/4"	1/2"	1"	10 1/2"	10"	161
1" × 5"	3/4"	3/4"	1/2"	1"	14"	12"	262
1" × 6"	3/4"	3/4"	1/2"	1"	16"	14"	363
1" × 8"	3/4"	3/4"	1/2"	1"	20"	16"	464
1" × 10"	3/4"	4"	1/2"	1"	24"	20"	565
1" × 12"	3/4"	4"	1/2"	1"	28"	24"	666

OPENINGS	F	E	D	C	B	A	PATT. No
1" × 2"	3/4"	3/4"	1/2"	1"	8"	10"	070
1" × 3"	3/4"	3/4"	1/2"	1"	10"	12"	171
1" × 4"	3/4"	3/4"	1/2"	1"	14"	14"	272
1" × 5"	3/4"	3/4"	1/2"	1"	16"	16"	373
1" × 6"	3/4"	3/4"	1/2"	1"	18"	18"	474
1" × 8"	3/4"	3/4"	1/2"	1"	22"	20"	575
1" × 10"	3/4"	4"	1/2"	1"	26"	22"	676

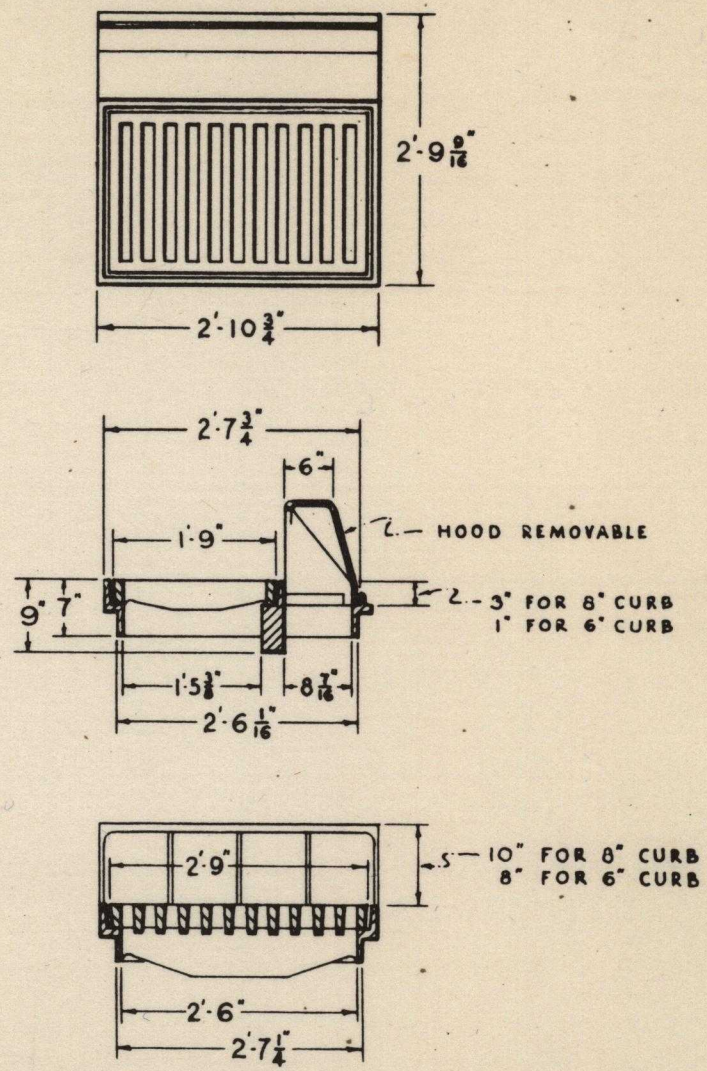
DATA SHEET No 171

CONTRACTORS FOUNDRY, PHILA. PA

CAST IRON HIGHWAY INLET FRAMES & GRATINGS



PATTERN Nº 308
WEIGHT 1165 LBS.
[PENNA. HIGHWAY INLET STANDARD TYPE C]



PATTERN Nº 304
WEIGHT 790 LBS.
[PENNA. HIGHWAY INLET STANDARD TYPE F]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 172

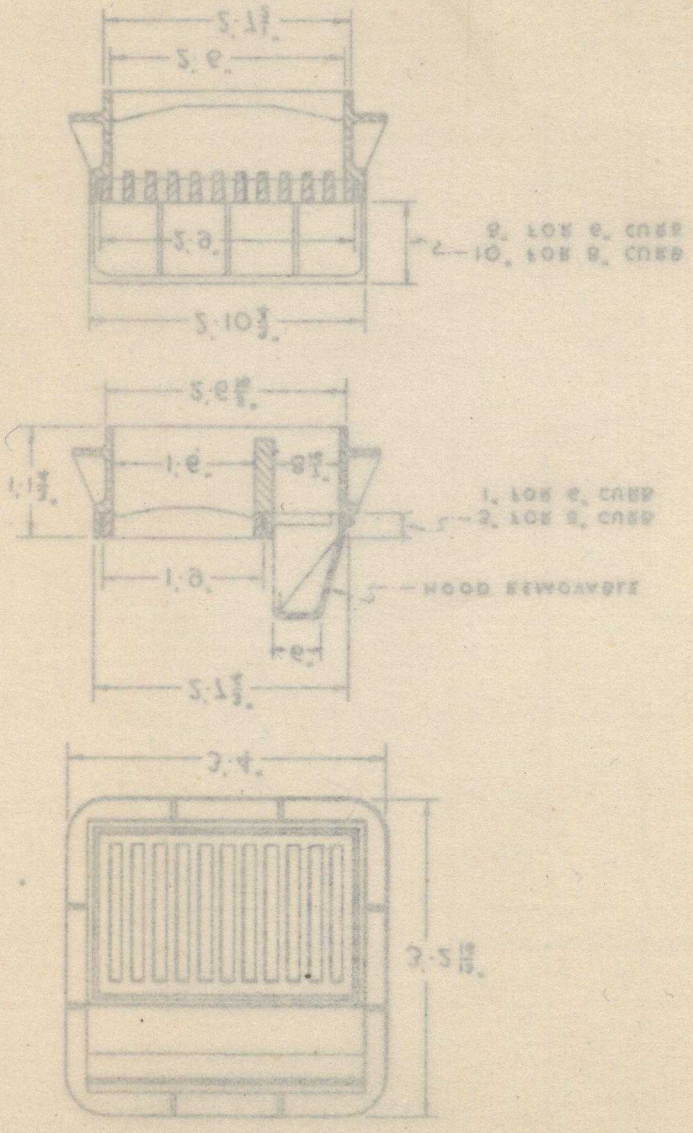
CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No. 115

[PENNA. HIGHWAY INLET STANDARD TYPE C]

WEIGHT 115 LBS.

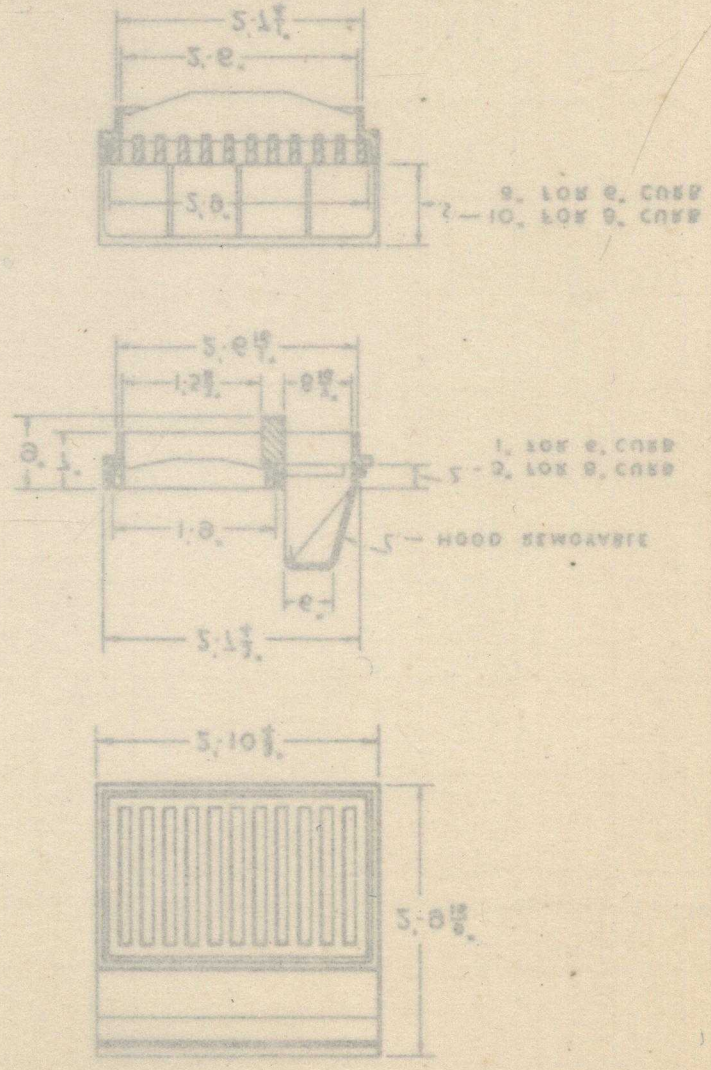
PATTERN No. 308



[PENNA. HIGHWAY INLET STANDARD TYPE F]

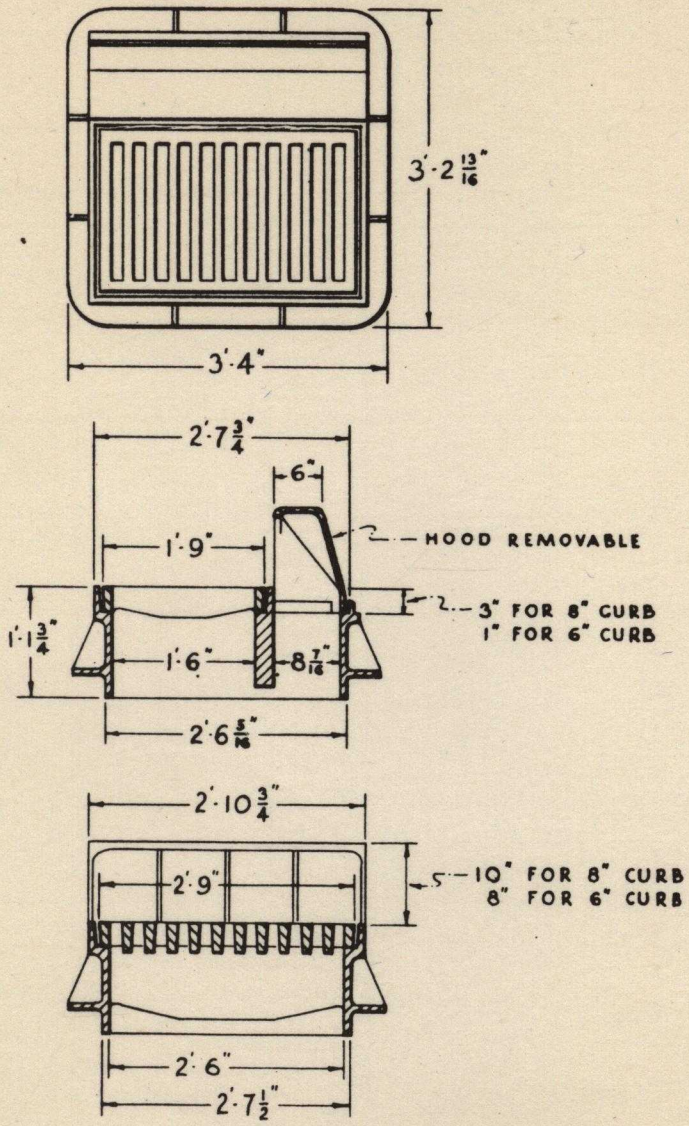
WEIGHT 130 LBS.

PATTERN No. 304

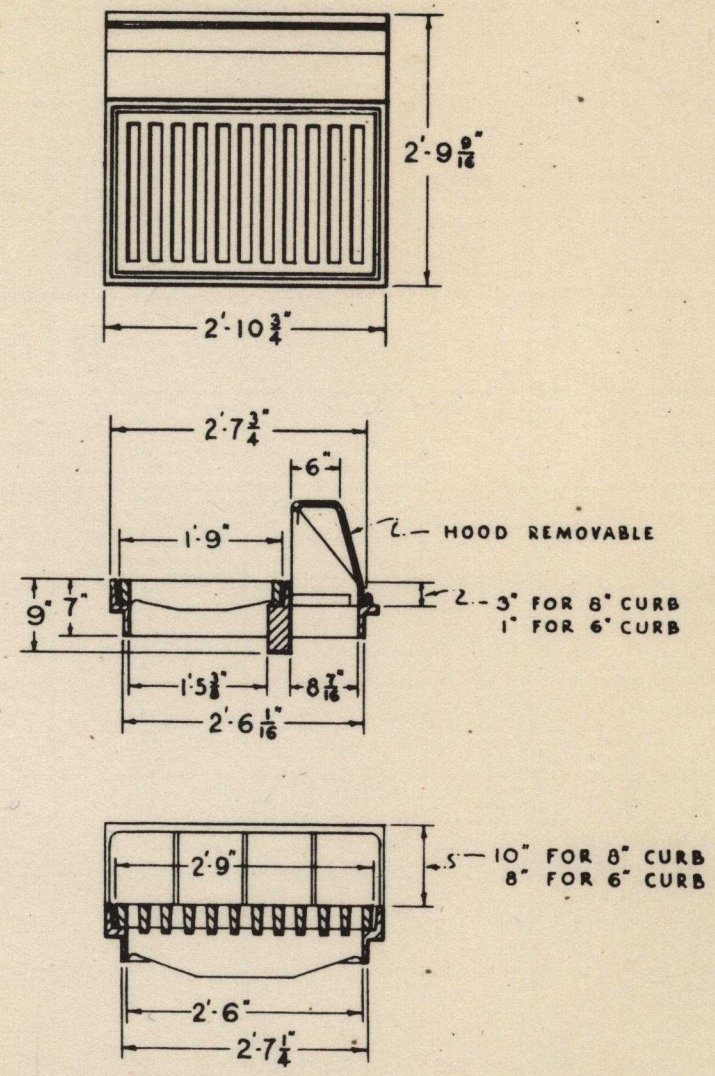


CAST IRON HIGHWAY INLET FRAMES & GRATINGS

CAST IRON HIGHWAY INLET FRAMES & GRATINGS



PATTERN Nº 308
WEIGHT 1165 LBS.
[PENNA. HIGHWAY INLET STANDARD TYPE C]



PATTERN Nº 304
WEIGHT 790 LBS.
[PENNA. HIGHWAY INLET STANDARD TYPE F]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 172

CONTRACTORS FOUNDRY INC., PHILA., PA.

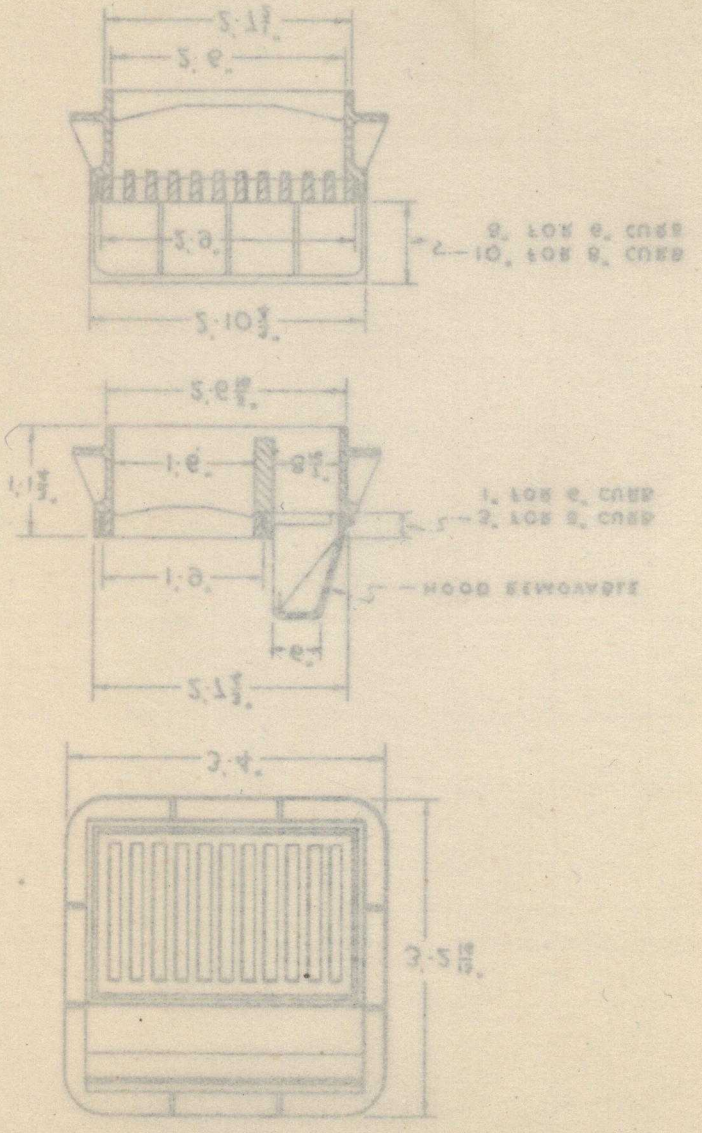
DATA SHEET No. 115

CAST IRON HIGHWAY INLET FRAMES & GRATINGS

[PENNA. HIGHWAY INLET STANDARD TYPE C]

PATTERN No. 308

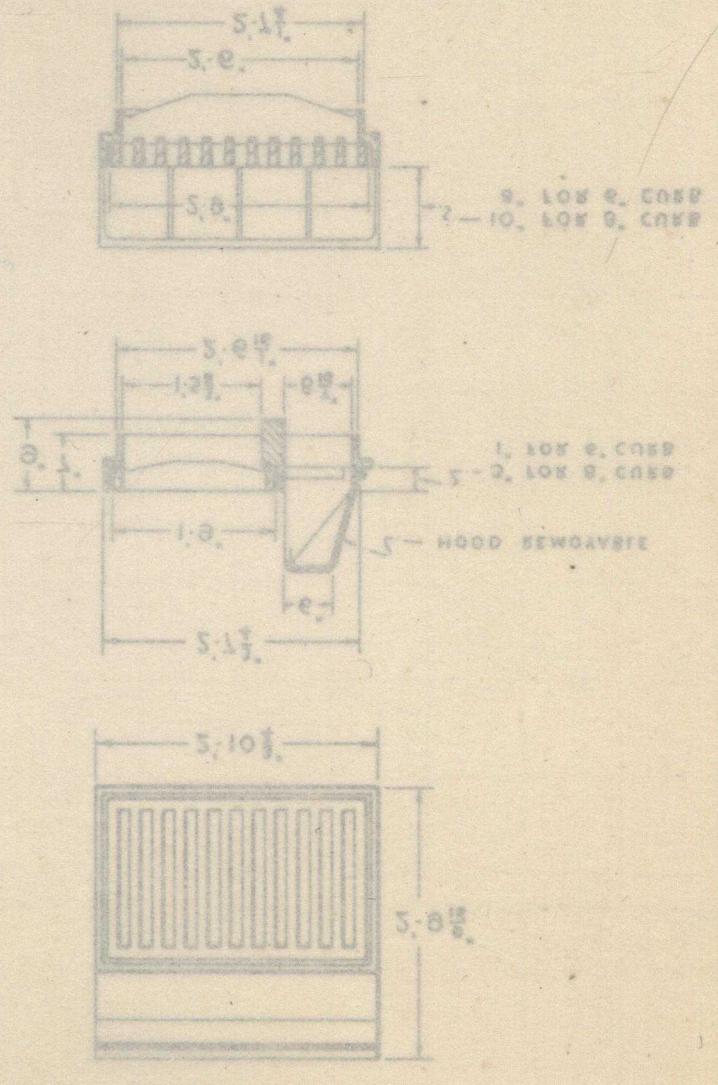
WEIGHT 115 LBS.



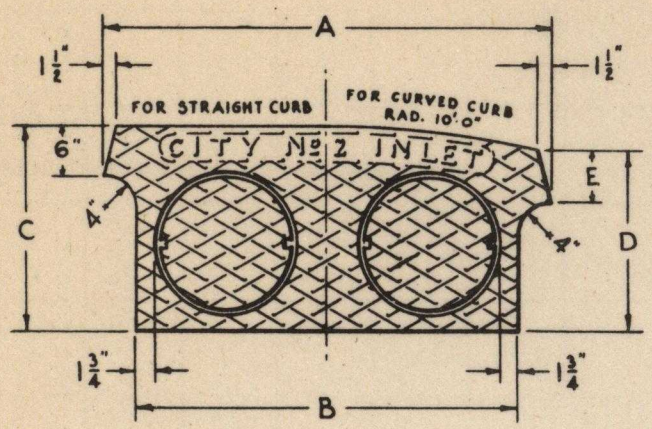
[PENNA. HIGHWAY INLET STANDARD TYPE F]

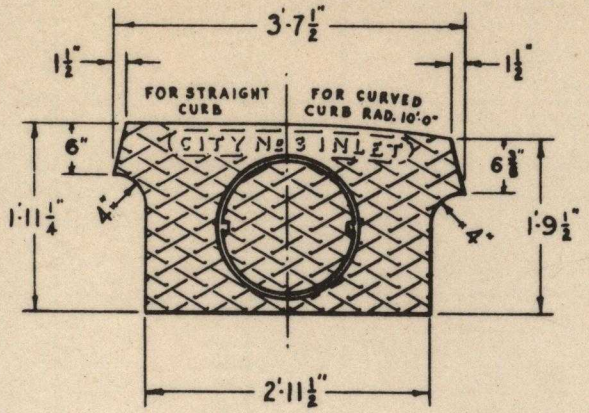
PATTERN No. 304

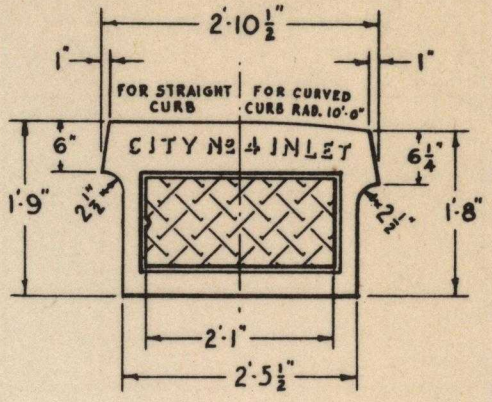
WEIGHT 130 LBS.

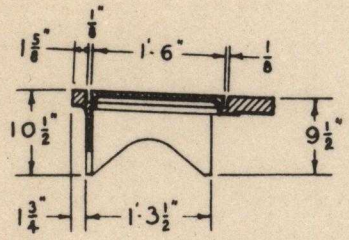


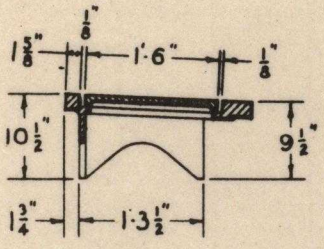
CAST IRON HIGHWAY INLET FRAMES & COVERS

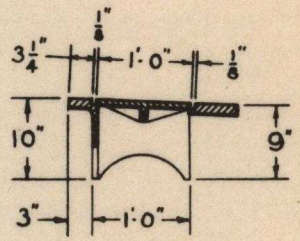


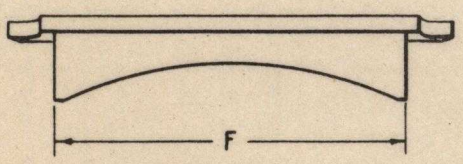


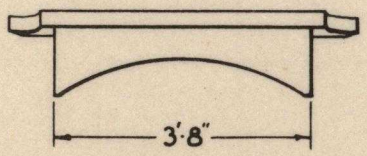


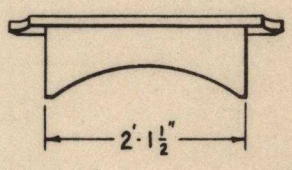












PATTERN Nº	A	B	C	D	E	F	WEIGHT
321 (Nº 1 INLET)	5'-7½"	4'-11½"	2'-3¼"	1'-10⅞"	6¾"	4'-8"	683 STRAIGHT 657 CURVED
322 (Nº 2 INLET)	4'-7½"	3'-11½"	2'-1¼"	1'-10⅜"	6½"	3'-8"	538 STRAIGHT 526 CURVED

PATTERN Nº 323

WEIGHT 372 LBS. STRAIGHT
369 LBS. CURVED

PATTERN Nº 366

WEIGHT 227 LBS. STRAIGHT
221 LBS. CURVED

[STD. FOR CITY OF PHILA. & COMM. OF PENNA.]

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 174

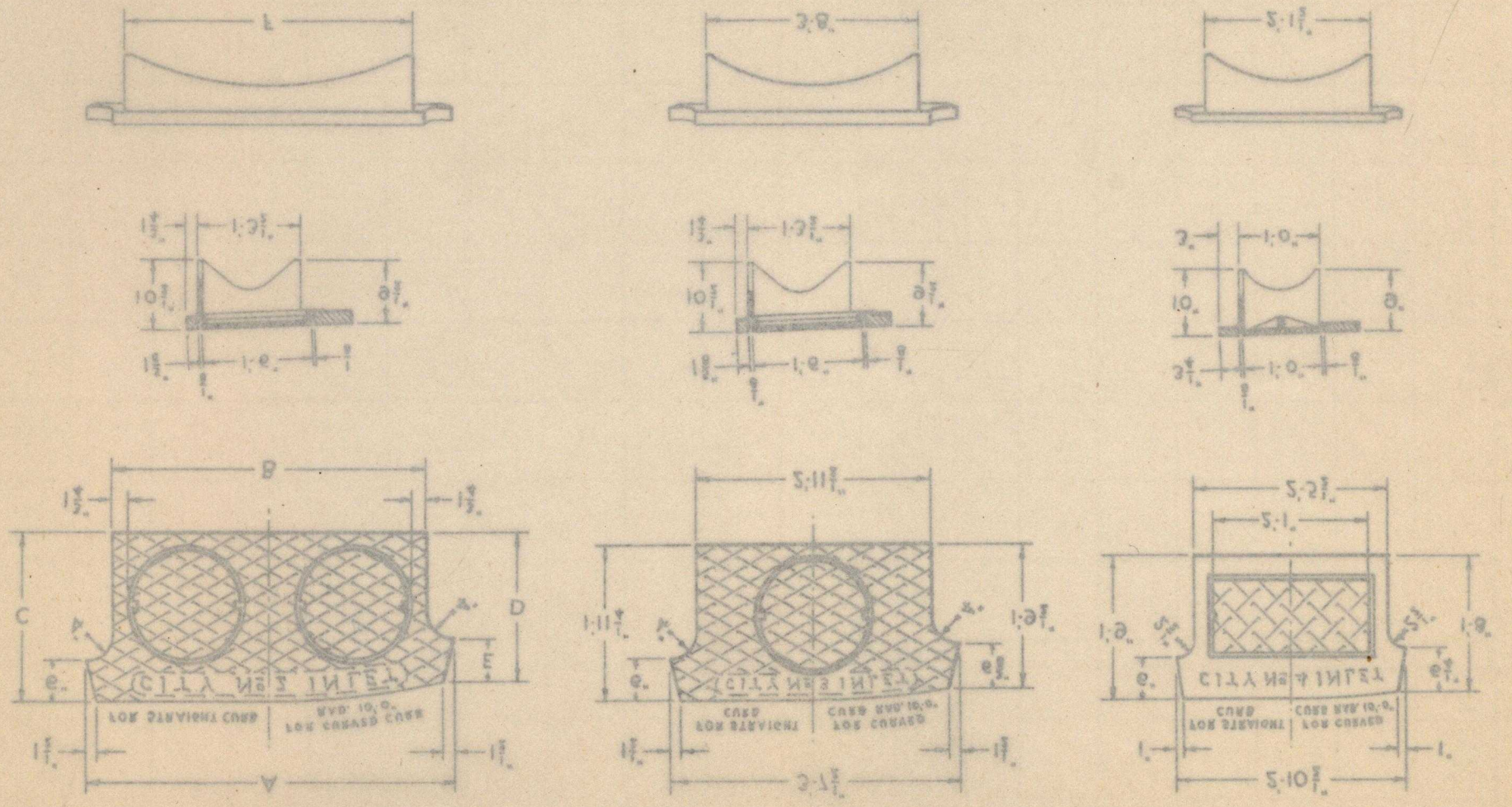
[STD. FOR CITY OF PHILA. & COMM. OF PENNA.]

PATTERN No	A	B	C	D	E	F	WEIGHT
351 (No. 1 INLET)	2'-7 1/4"	4'-11 1/2"	5'-3 1/4"	1'-10 3/8"	6 1/2"	4'-8"	683 STRAIGHT 751 CURVED
355 (No. 5 INLET)	4'-7 1/4"	3'-11 1/2"	5'-1 1/4"	1'-10 3/8"	6 1/2"	3'-8"	658 STRAIGHT 758 CURVED

PATTERN No 351

WEIGHT 751 LBS. STRAIGHT

751 LBS. CURVED



PATTERN No 355

WEIGHT 658 LBS. STRAIGHT

658 LBS. CURVED

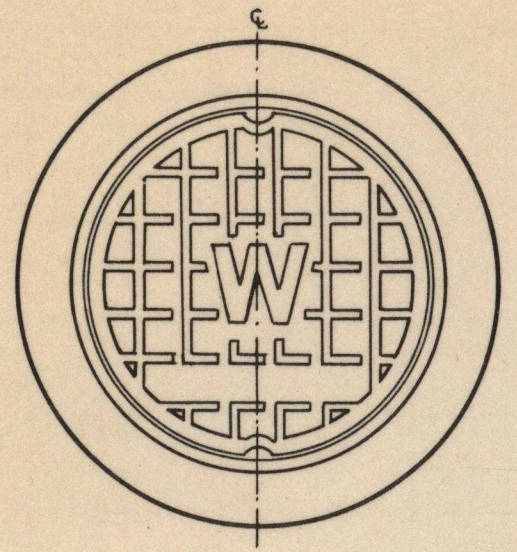
PATTERN No 366

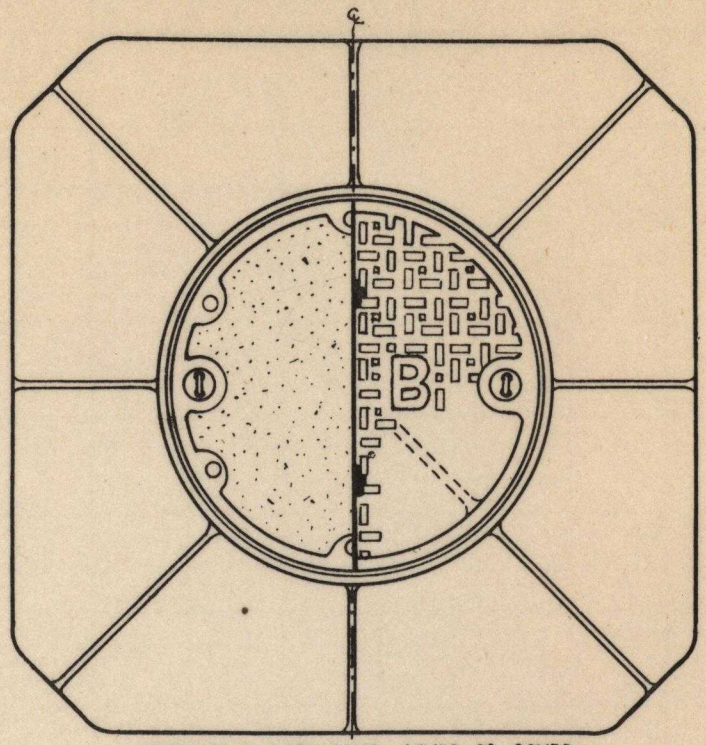
WEIGHT 683 LBS. STRAIGHT

683 LBS. CURVED

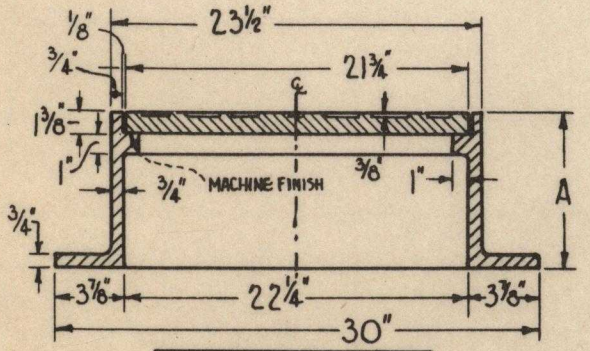
CAST IRON HIGHWAY INLET FRAMES & COVERS

·CAST IRON· MANHOLE FRAMES & COVERS·



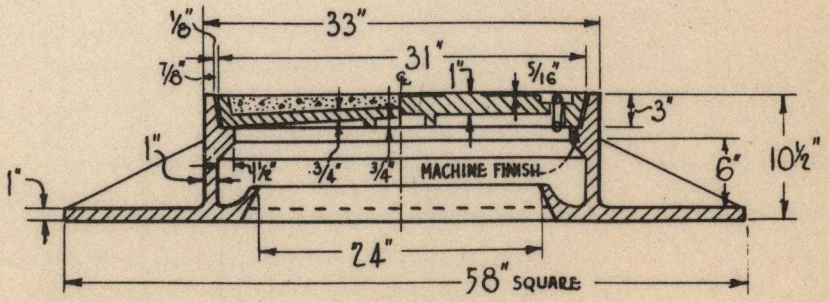


FURNISHED WITH SOLID COVER OR COVER
• FOR CONCRETE FILL BY OTHERS •



PATTERN Nº	A	WEIGHT
87	5½"	257
88	9¾"	317

[PHILA. WATER BUREAU STD.]



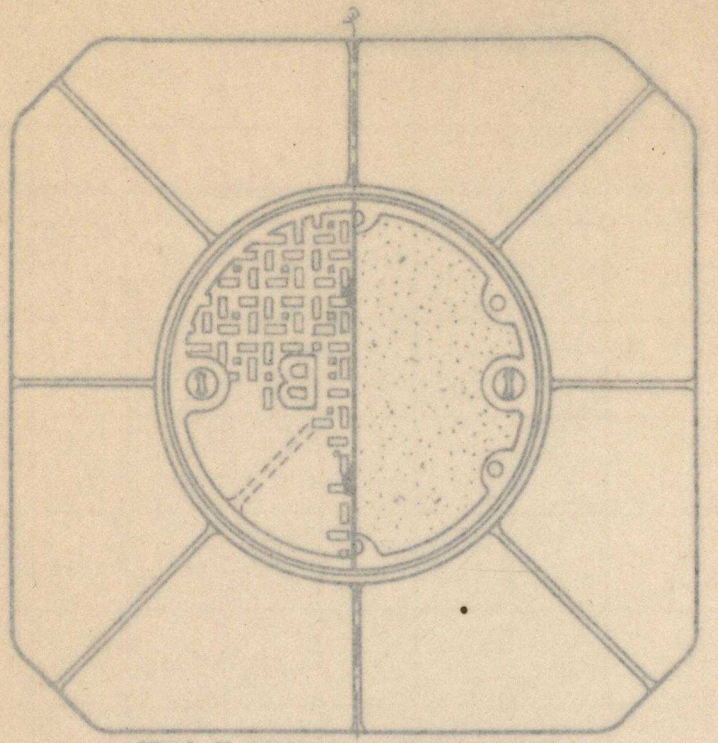
PATTERN Nº 148
WEIGHT · 1374 · LBS.

[PHILA. ELEC. BUREAU STD.]

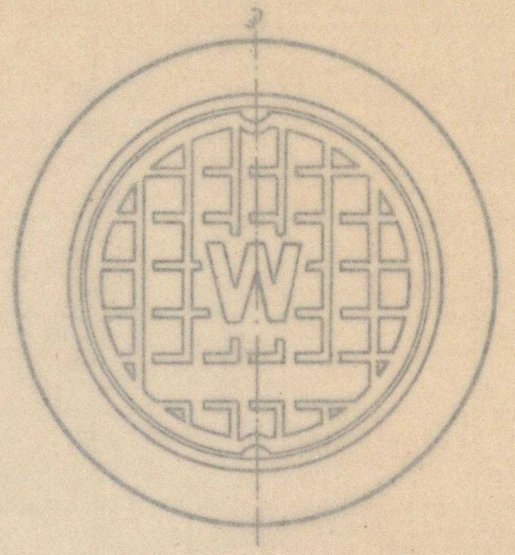
CONTRACTORS FOUNDRY INC., PHILA., PA.

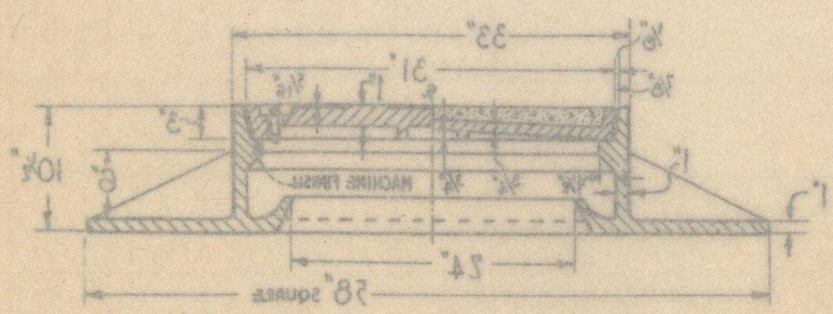
DATA SHEET Nº 175

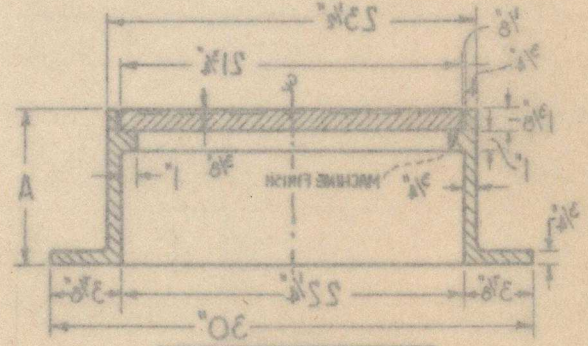
CAST IRON MANHOLE FRAMES & COVERS.



FURNISHED WITH SOLID COVER OR COVER.
* FOR CONCRETE FILL BY OTHERS *







PATTERN Nº	A	WEIGHT
87	5¾"	257
88	9¾"	317

PATTERN Nº 148
WEIGHT 1374 LBS.

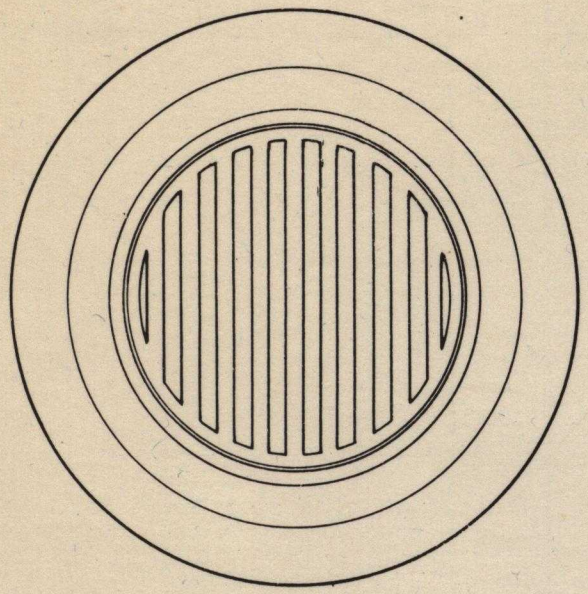
[PHILA. ELEC. BUREAU STD.]

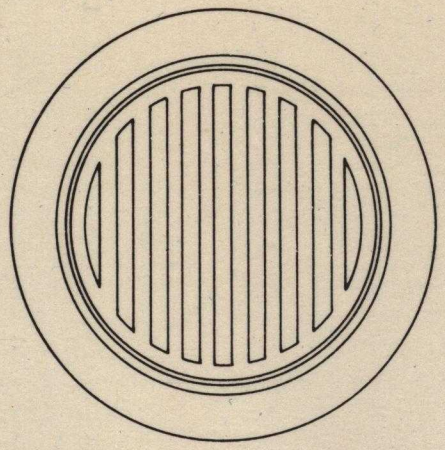
[PHILA. WATER BUREAU STD.]

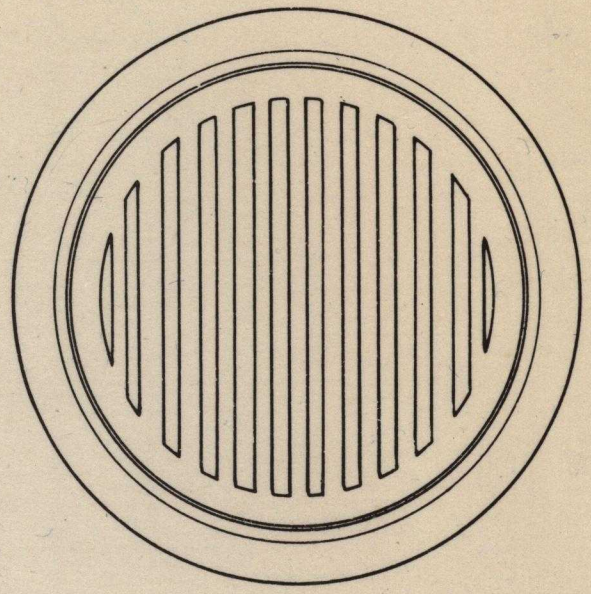
CONTRACTORS FOUNDRY INC., PHILA., PA.

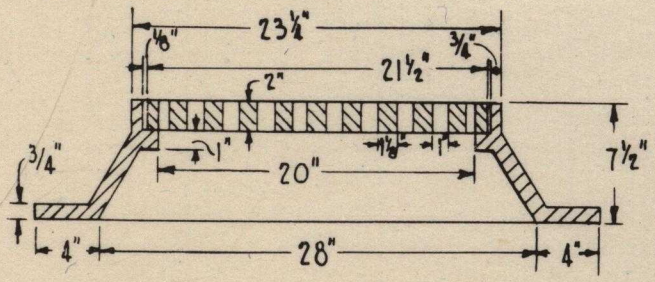
DATA SHEET Nº 175

· CAST IRON · FRAMES & GRATINGS ·

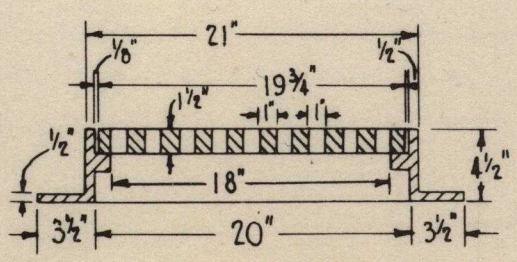




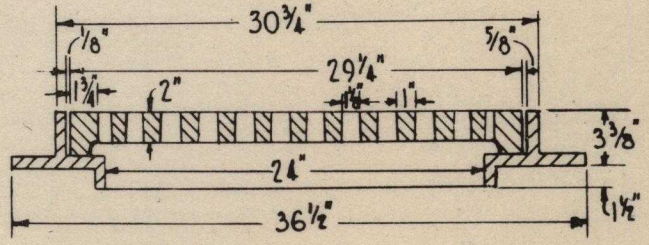




PATTERN Nº 236
WEIGHT 400 LBS.



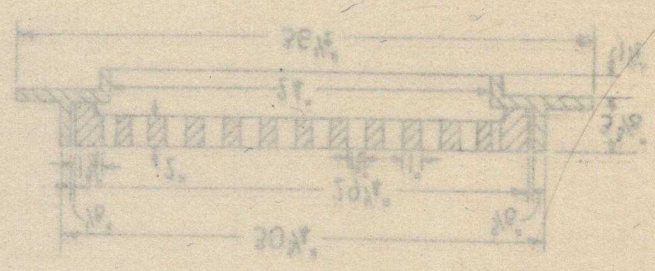
PATTERN Nº 150
WEIGHT 160 LBS.



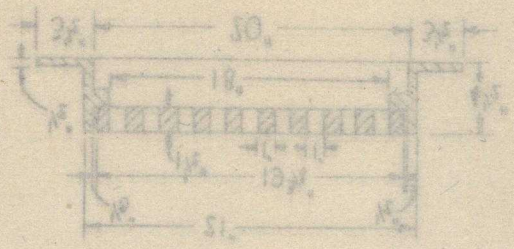
PATTERN Nº 184
WEIGHT 300 LBS.

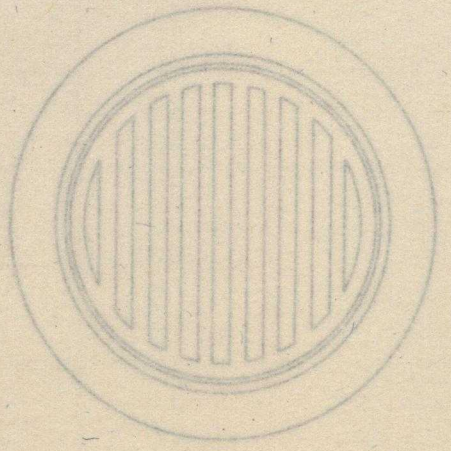
CAST IRON · FRAMES & GRATINGS ·

PATTERN No 184
WEIGHT 300 LBS.

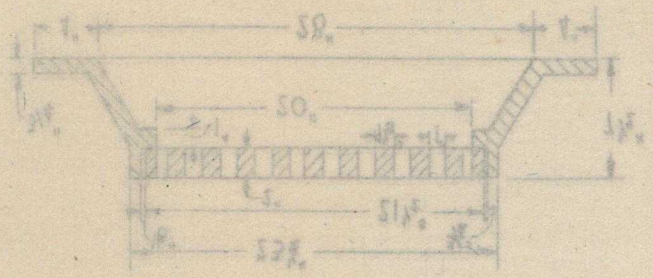


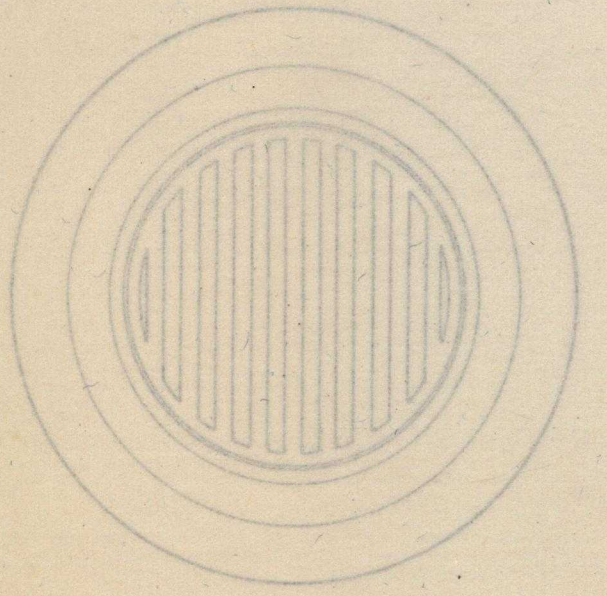
PATTERN No 150
WEIGHT 180 LBS.





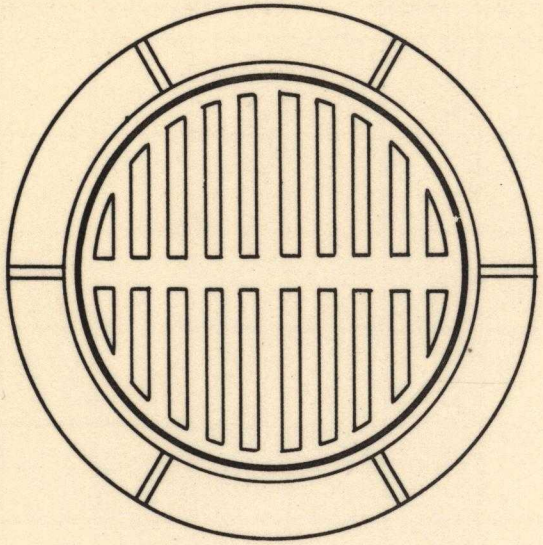
PATTERN No 238
WEIGHT 100 LBS.

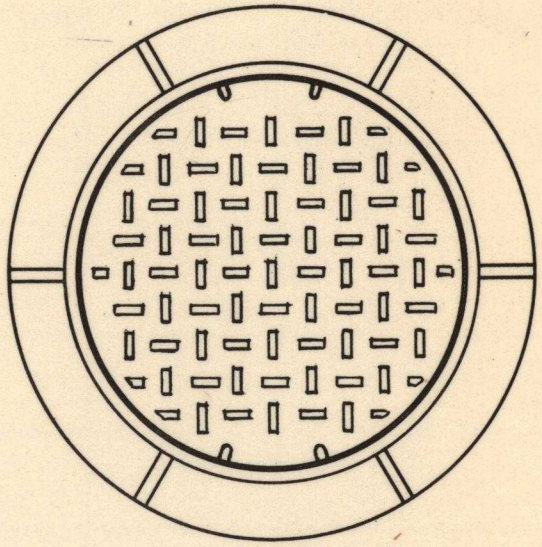


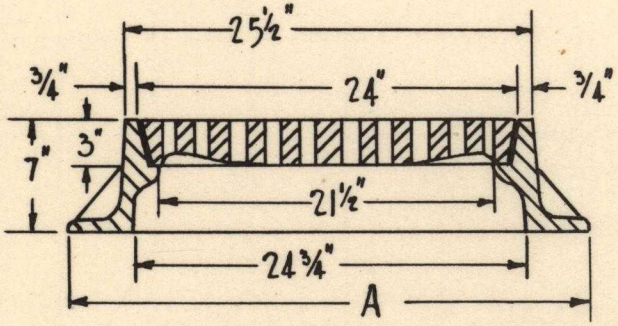


CAST IRON · MANHOLE FRAMES · WITH SOLID OR GRATING COVER

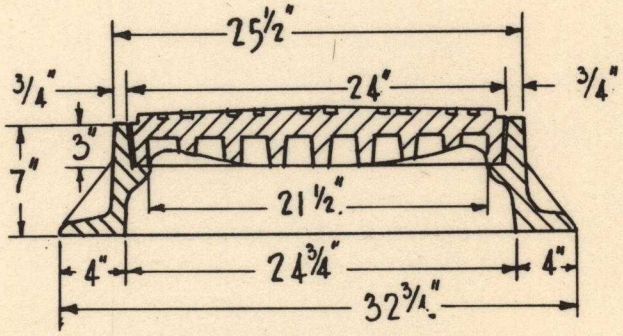
· TO WITHSTAND 20 TON CONCENTRATED LOAD ·







PATTERN Nº	A	WEIGHT	USE
778	32¾"	350	FOR PIT MANHOLE
779	28"	340	FOR 24" SEWER TILE



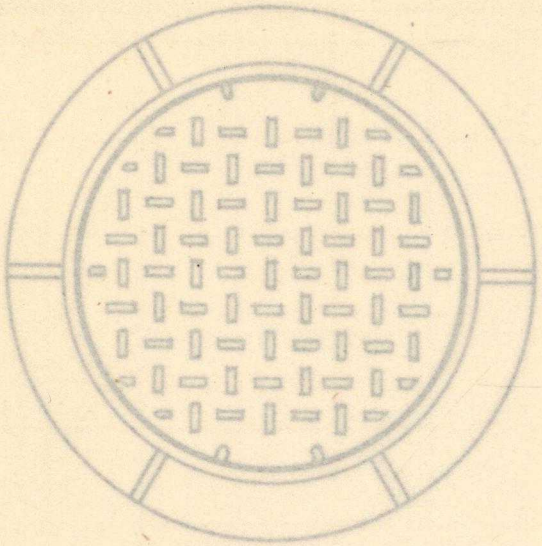
PATTERN Nº 777
WEIGHT 350 LBS

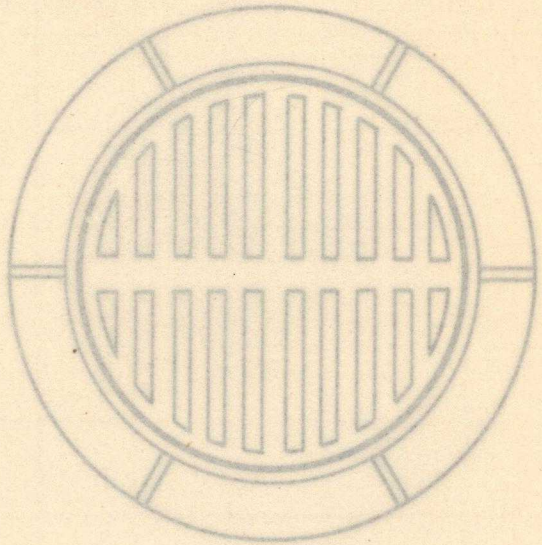
CONTRACTORS FOUNDRY INC., PHILA., PA.

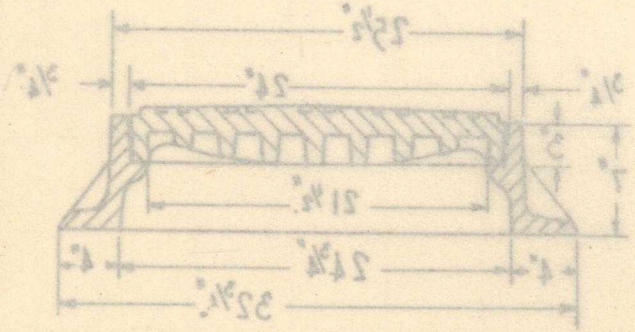
DATA SHEET Nº 199

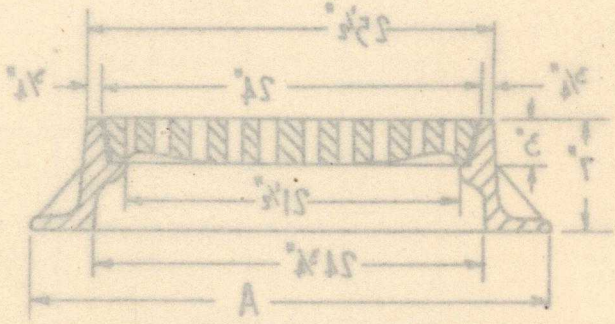
CAST IRON · MANHOLE FRAMES · WITH SOLID OR GRATING COVER

- TO WITHSTAND 20 TON CONCENTRATED LOAD -









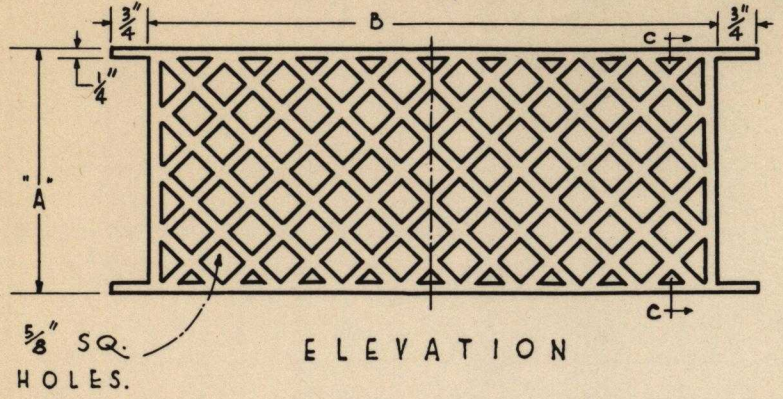
PATTERN Nº 177
WEIGHT 350 LBS

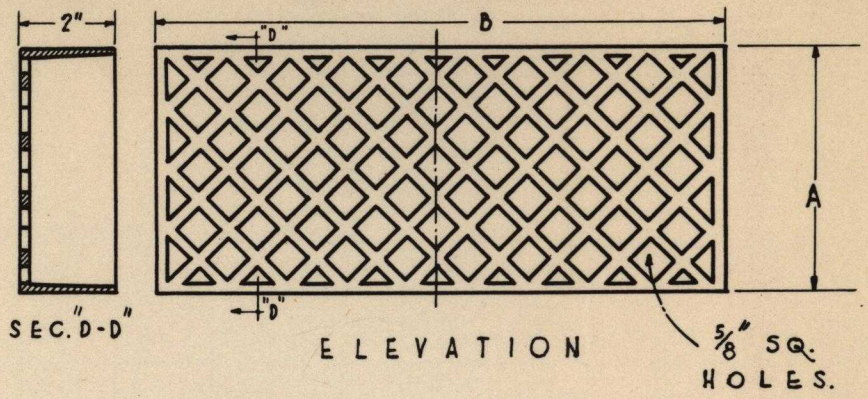
PATTERN Nº	A	WEIGHT	USE
176	22¾"	350	FOR PIT MANHOLE
179	26"	340	FOR 24" SEWER TILE

CONTRACTORS FOUNDRY INC., PHILA., PA.

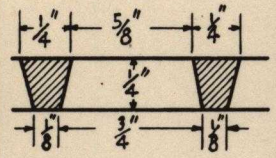
DATA SHEET Nº 199

VENT GRILLES CAST IRON VENT BRICKS





PATTERN Nº	SIZE A	SIZE B	WEIGHT ·LBS·
650	5	12	6
651	6	8	4
652	6	12	7
653	7	14	8
654	8	8	5
655	8	10	6
656	8	12	7

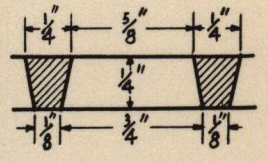


DETAIL OF OPENINGS.

PATTERN Nºs 661 & 662 METAL THICKNESS IS SLIGHTLY INCREASED.

PATTERN Nº	SIZE A	SIZE B	WEIGHT ·LBS·
657	8	16	8
658	10	12	8
659	12	12	9
660	12	14	10
661	12	18	15
662	12	24	20
666	18	24	27
702	18	18	22

PATTERN Nº	SIZE A	SIZE B	WEIGHT ·LBS·
675	2½	8	3
676	5	8	4
677	5	17	8
678	5	12	7
679	6	12	8
680	8	10	7
681	8	12	9

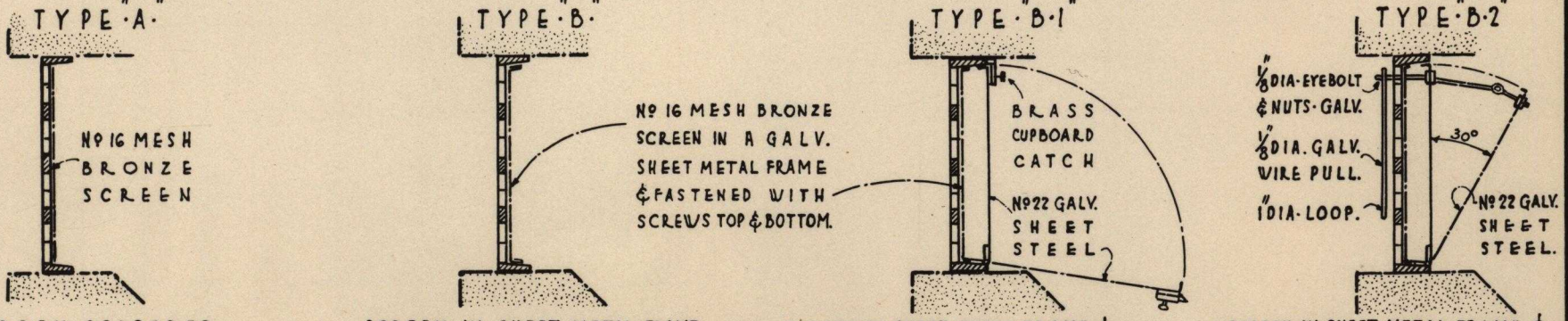


DETAIL OF OPENINGS.

PATTERN Nºs 684 & 685 METAL THICKNESS IS SLIGHTLY INCREASED.

PATTERN Nº	SIZE A	SIZE B	WEIGHT ·LBS·
682	10	12	10
683	12	12	12
684	12	18	18
685	12	24	24
686	8	16	12
703	8	8	6

TYPICAL · SECTIONS · THROUGH VENT GRILLES · WITH · SCREEN & WITH SCREEN & SHUTTER.



SCREEN SOLDERED TO VENT FRAME

SCREEN IN SHEET METAL FRAME FASTENED TO VENT FRAME.

SCREEN IN SHEET METAL FRAME & HINGED SHUTTER · *INTERIOR OPERATION.*

SCREEN IN SHEET METAL FRAME & HINGED SHUTTER · *EXTERIOR OPERATION.*

CONTRACTORS FOUNDRY, PHILA. PA.

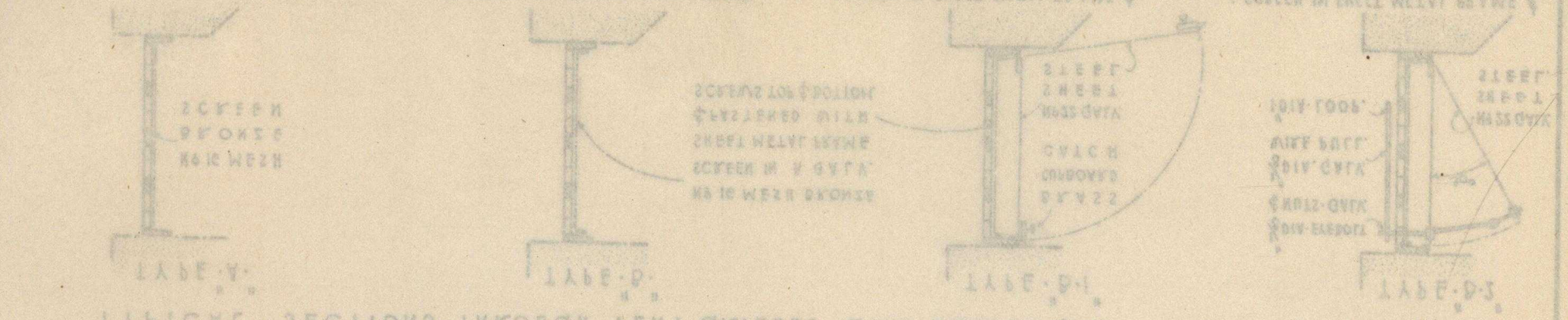
DATA SHEET Nº 200

3-1-48

CONTRACTORS FOUNDRY, PHILA. PA.

DATA SHEET No. 200

TYPICAL SECTIONS THROUGH VENT GRILLES WITH SCREEN & WITH SCREEN & SHUTTER



PATTERN	SIZE		WEIGHT
No	A	B	LBS.
6S0	5	12	6
6S1	6	8	4
6S2	5	12	7
6S3	6	12	8
6S4	8	8	5
6S5	7	14	8
6S6	8	10	6
6S7	8	12	7

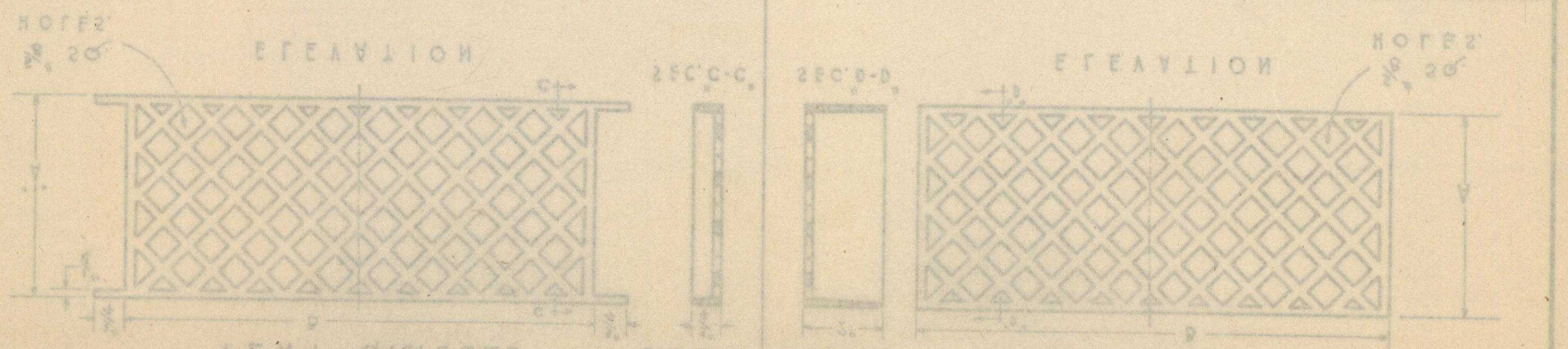
OPENINGS DETAIL OF PATTERN No. 6S1 & 6S2 METAL THICKNESS IS 20 GAUGE INCREASED

PATTERN	SIZE		WEIGHT
No	A	B	LBS.
6S7	8	16	8
6S8	10	12	8
6S9	12	12	9
6S0	12	14	10
6S1	12	18	12
6S2	12	24	20
6S3	18	24	32
6S4	18	18	25

PATTERN	SIZE		WEIGHT
No	A	B	LBS.
6S5	5½	8	5
6S6	5	8	4
6S7	5	12	8
6S8	5	12	7
6S9	6	12	8
6S0	8	10	7
6S1	8	12	9

OPENINGS DETAIL OF PATTERN No. 6S4 & 6S5 METAL THICKNESS IS 20 GAUGE INCREASED

PATTERN	SIZE		WEIGHT
No	A	B	LBS.
6S3	10	12	10
6S4	12	12	12
6S5	12	24	24
6S6	8	18	12
6S7	8	12	9

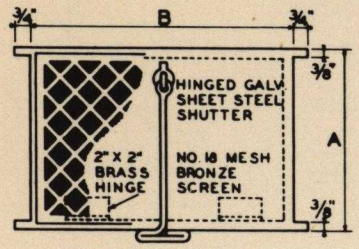


VENT GRILLES CAST IRON VENT BRICKS

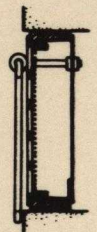
CAST IRON VENT GRILLES

HEAVY PATTERN · EXTERIOR OPERATION

PUBLIC BLDGS ADM. DETAIL



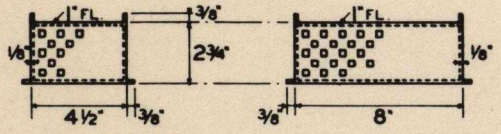
ELEVATION



SECTION

PATTERN NO.	SIZE		WEIGHT	REMARKS
	A	B		
663	8 3/8"	12 3/8"	12	SA. DET. NO. 18
664	10 3/8"	12 3/8"	15	SA. DET. NO. 18 MOD.
665	12 3/8"	16 3/8"	20	SA. DET. NO. 18 MOD.

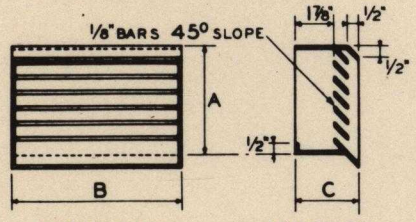
ROOF VENTS



PATTERN NO. 673 WEIGHT 1 LB.

PATTERN NO. 674 WEIGHT 2 LBS

LOUVRED VENTS



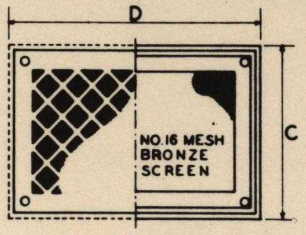
ELEVATION SECTION

NOTE: CAN BE FURNISHED WITH GALVANIZED SHEET METAL DUCT FOR ANY WALL THICKNESS BRONZE SCREEN ATTACHED ALSO IF REQUIRED.

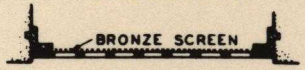
PATTERN NO	SIZE			WEIGHT
	A	B	C	
671	2 1/2"	8"	3"	4
672	5"	8"	3"	6

VENTS WITH METAL SCREEN

VETERANS ADM. STANDARD



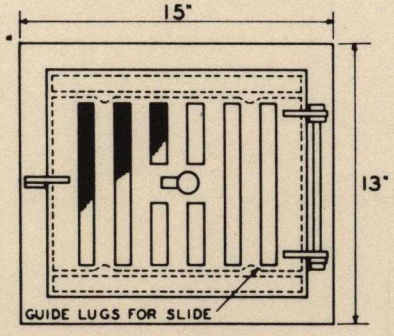
ELEVATION



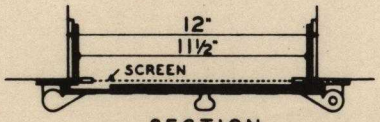
SECTION

PATTERN NO.	SIZE		WEIGHT
	C	D	
690	8"	12"	12
691	12"	12"	15
692	12"	18"	20
693	12"	24"	30
694	18"	24"	35
695	22"	36"	50

SLIDING REGISTER VENT IN HINGED DOOR



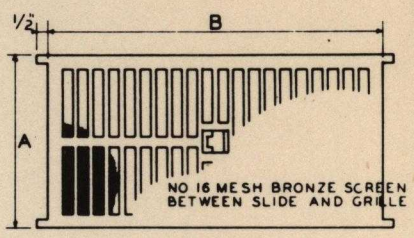
ELEVATION



SECTION

PATTERN NO. 669 WEIGHT 25 LBS

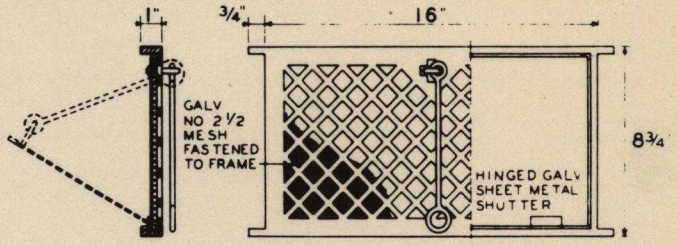
SLIDING REGISTER VENT



ELEVATION

PATTERN NO	SIZE		WEIGHT
	A	B	
667	8"	12"	7
668	8"	16"	10

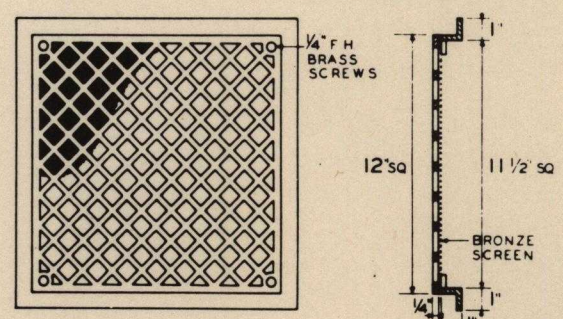
VENT WITH SHUTTER · EXTERIOR OPERATION



SECTION ELEVATION

PATTERN NO 697 WEIGHT 10 LBS

CEILING VENT WITH SCREEN

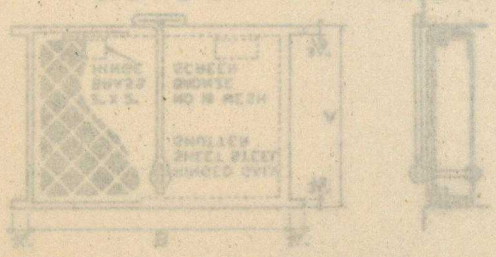


ELEVATION SECTION

PATTERN NO 701 WEIGHT 14 LBS

CAST IRON AGENT GRILLES

HEAVY PATTERN EXTERIOR OPERATION



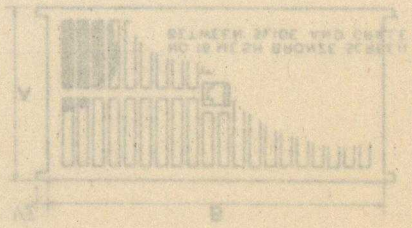
PUBLIC BLDGS NOW DETAIL

VENTS WITH METAL SCREEN

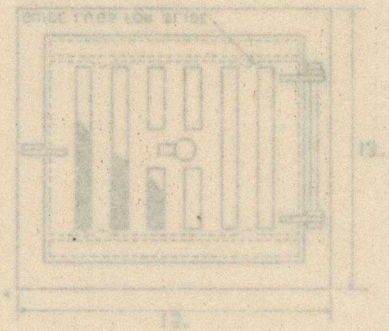
VETERANS NEW STANDARD

SLIDING REGISTER VENT

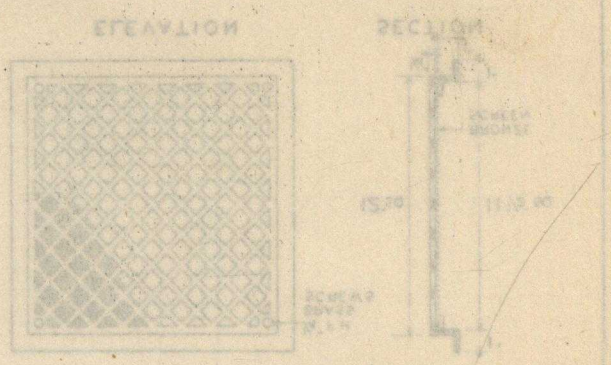
NO PATTERN	SIZE		WEIGHT
	A	B	
1	9.	18.	10



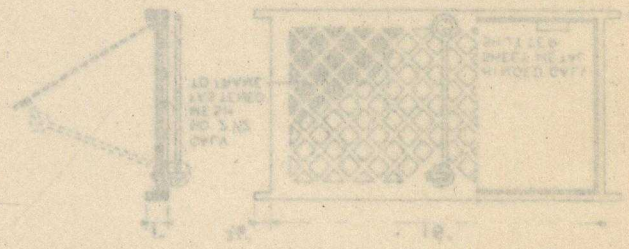
SLIDING REGISTER VENT IN HINGED DOOR



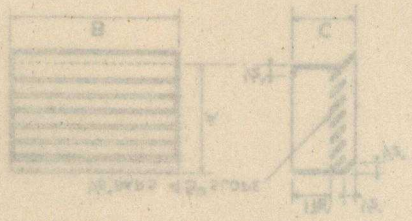
CEILING VENT WITH SCREEN



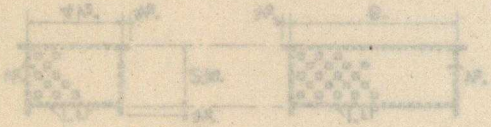
VENT WITH SHUTTER EXTERIOR OPERATION



CONVERTED VENTS



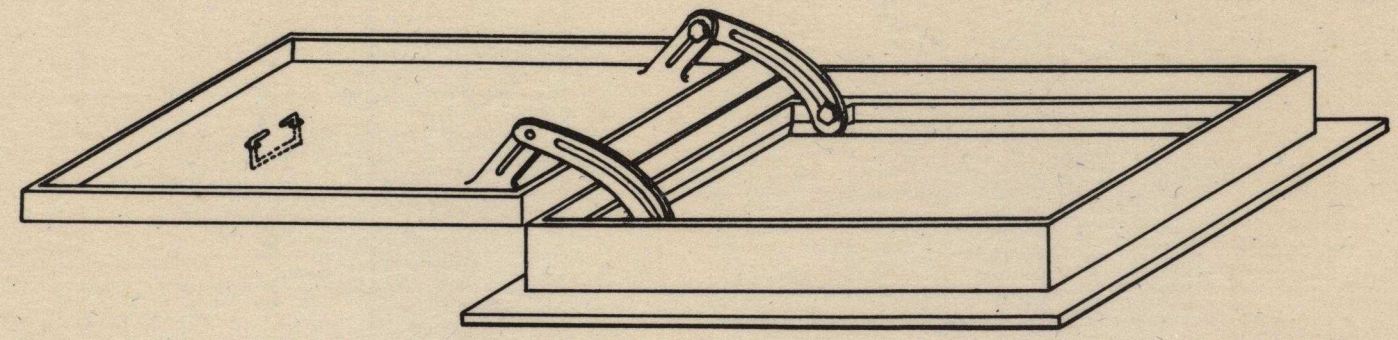
ROOF VENTS

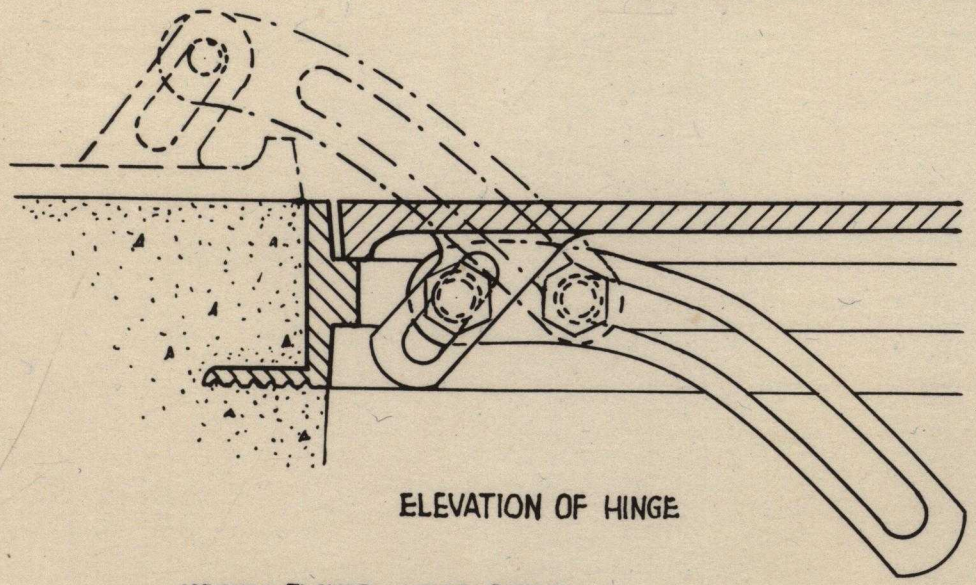


NO PATTERN	SIZE		WEIGHT	REMARKS
	A	B		
1	9.	15.	15	AS DET NO 18 MOD.
2	10.	15.	21	AS DET NO 18 MOD.
3	10.	15.	30	AS DET NO 18 MOD.
4	9.	15.	15	
5	9.	15.	15	
6	15.	19.	30	
7	15.	24.	30	
8	19.	24.	32	
9	22.	24.	50	

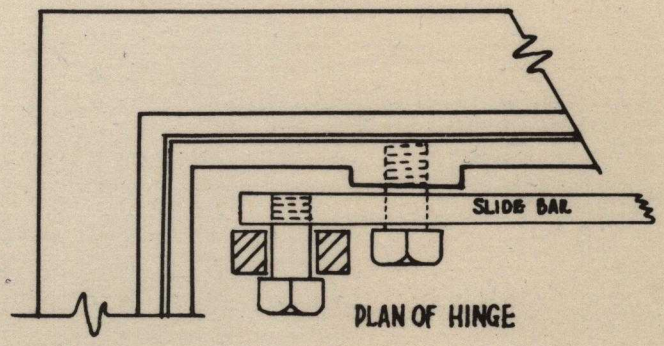
CAST IRON · LIGHTWEIGHT · MANHOLE FRAMES

• WITH HINGED COVERS & GRATINGS •





ELEVATION OF HINGE



PLAN OF HINGE

SPECIFY FLANGE - UP OR DOWN.

HINGE IS ENTIRELY CONCEALED WHEN COVER IS CLOSED.

COVER LAYS FLAT WHEN IN OPEN POSITION.

PATTERN NUMBERS	BOLT SIZE	BAR SIZE
21, 22, 23, 24, 31	3/8"	1/4"
25, 26, 27, 28, 32, 33, 34, 35, 36, 37, 38, 56, 200	5/8"	1/2"
29, 39, 40, 57, 68	3/4"	5/8"

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 225

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET No 555

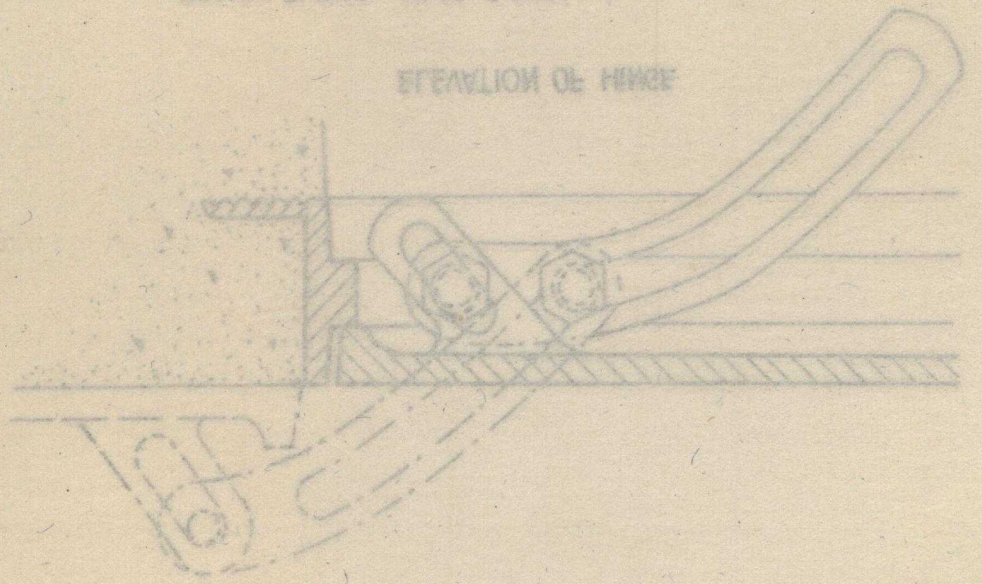
COVER LEAVES REAR WHEN IN OPEN POSITION.

HINGE IS ENTIRELY CONCEALED WHEN COVER IS CLOSED.

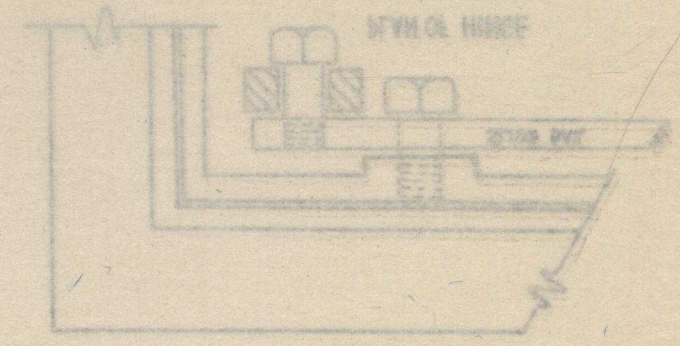
SPECIFY FRAME - NO OR DOWN.

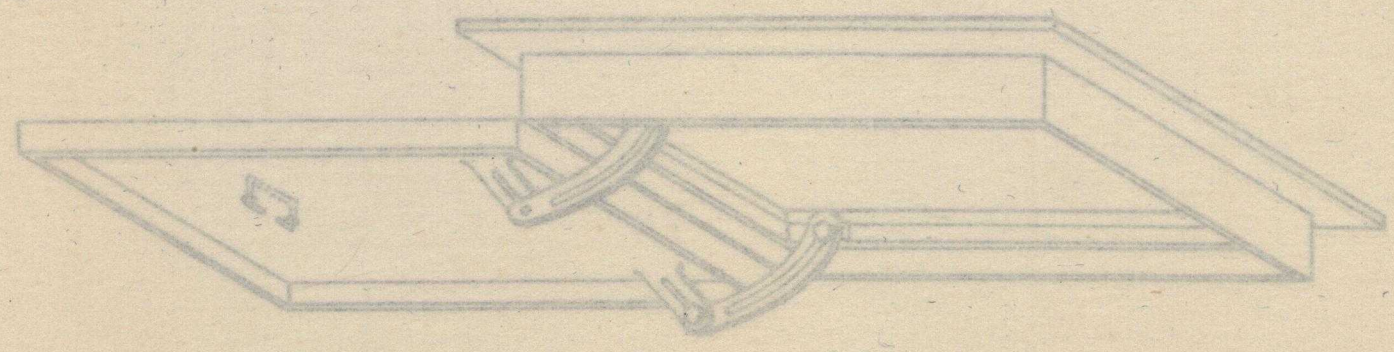
PATTERN NUMBER	FOR 25#	FOR 35#
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

ELEVATION OF HINGE



PLAN OF HINGE

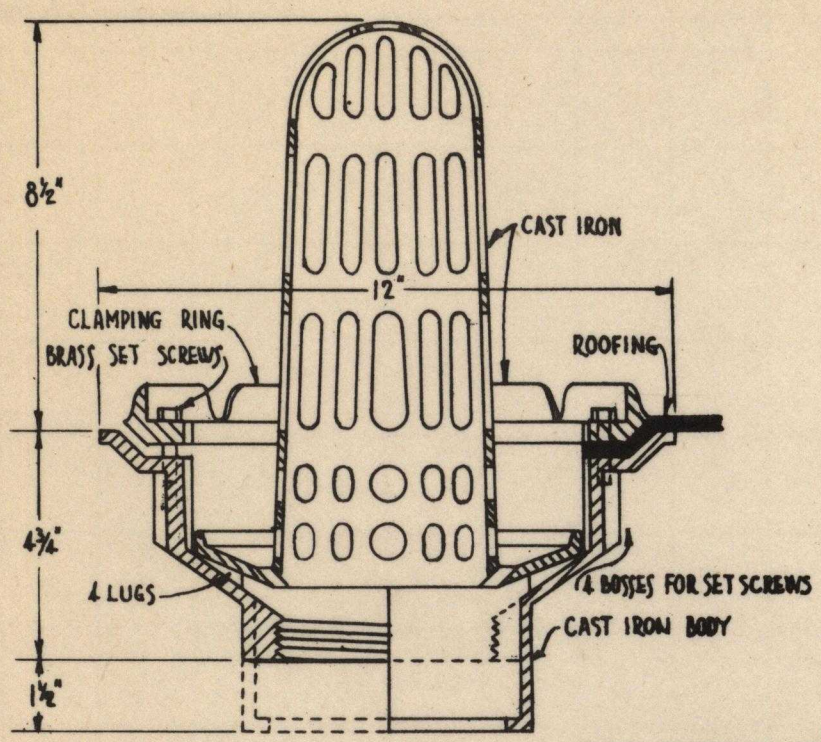


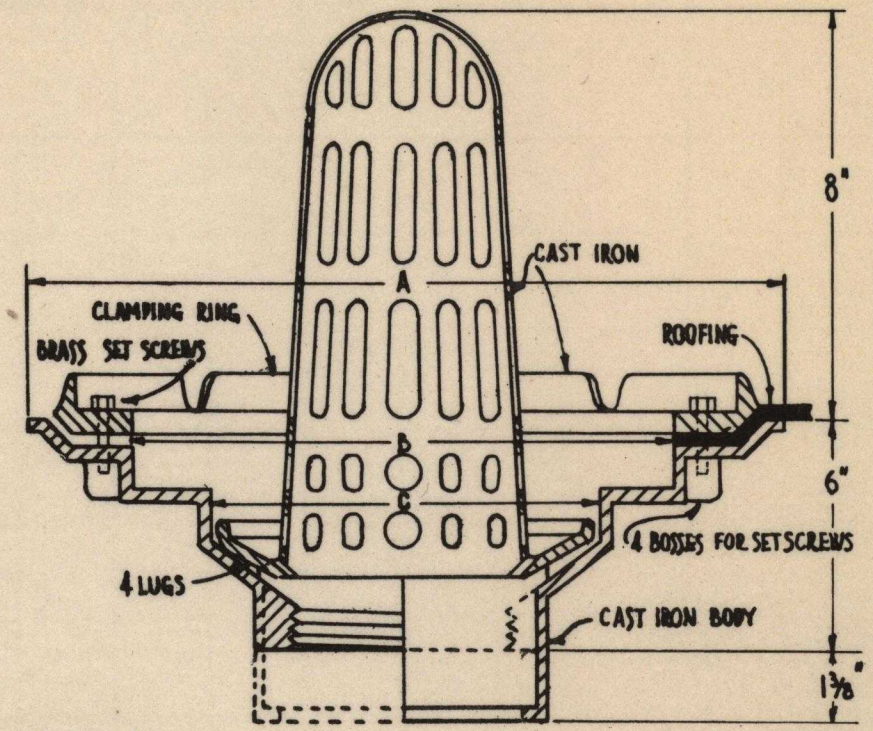


CAST IRON · LIGHTWEIGHT · MANHOLE FRAMES

· WITH HINGED COVERS & GRATINGS ·

·CAST IRON · ROOF DRAINS ·





WITH REMOVABLE STRAINER AND SEDIMENT CUP

· INSIDE CAULK OR THREADED OUTLET ·

SERIES 3000

PATTERN Nº	OUTLET
3002	2"
3003	3"
3004	4"
3005	5"

SERIES 3100

PATTERN Nº	OUTLET	A	B	C
3103	3"	16	10¾	8⅝
3104	4"	16	10¾	8⅝
3105	5"	17¾	11⅜	9⅜

CONTRACTORS FOUNDRY INC. PHILA. PA.

DATA SHEET No 550

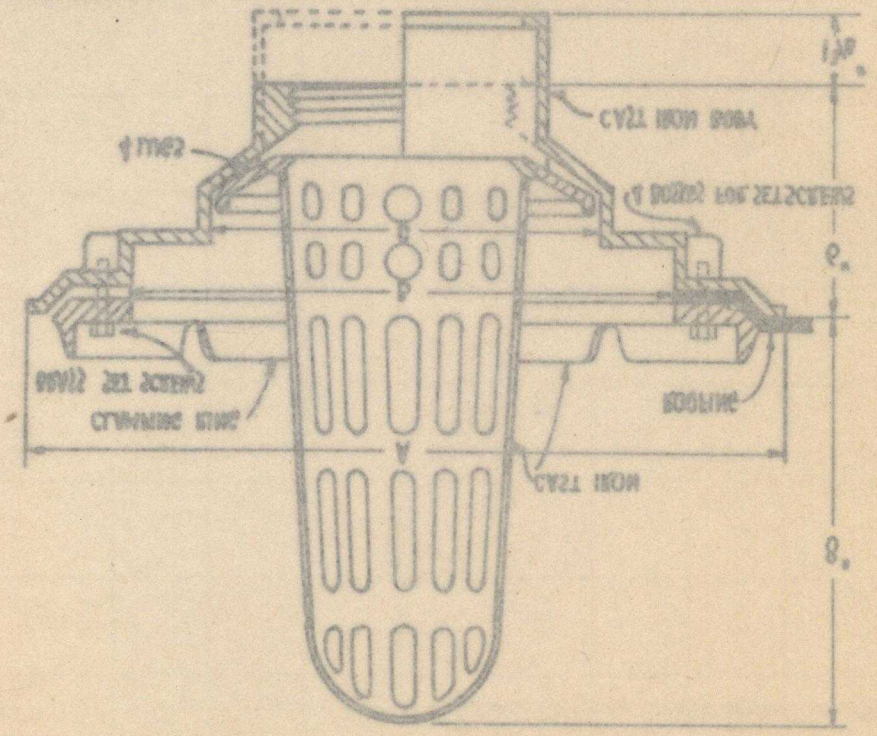
CAST IRON · ROOF DRAINS ·

· INSIDE CALK OR THREADED OUTLET ·

WITH DEMOUNTABLE STRAINER AND SEDIMENT CUP

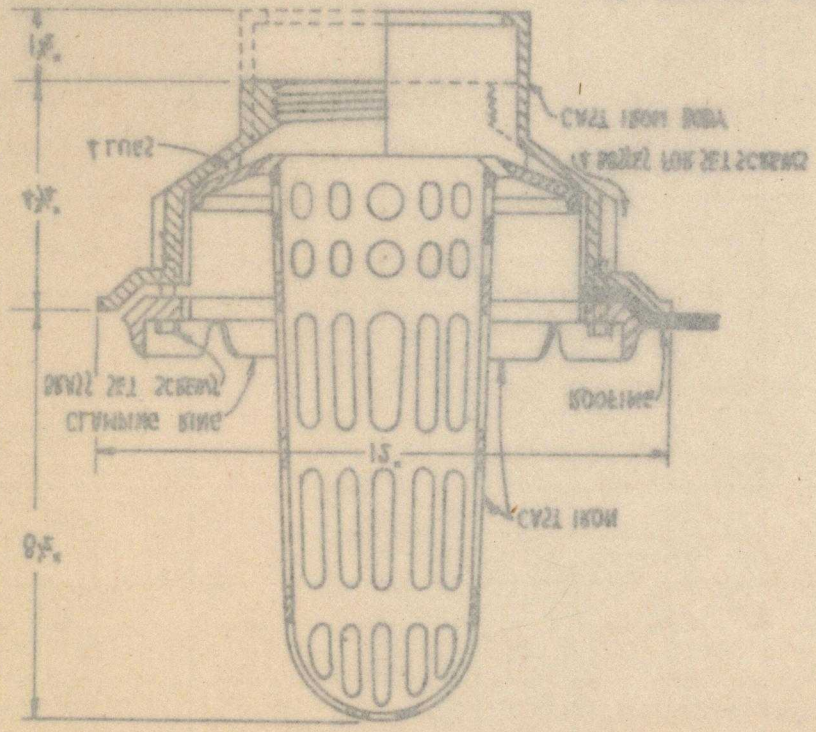
PATTERN No	OUTLET	A	B	C
2100	2"	14	10½"	9½"
2104	4"	14	10½"	9½"
2102	2"	14	10½"	9½"

SERIES 2100

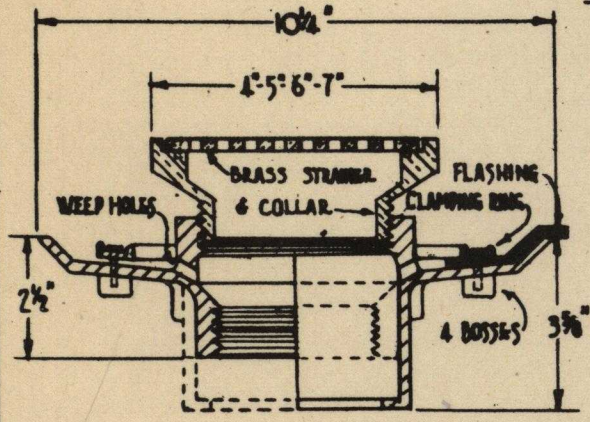


PATTERN No	OUTLET	A
2002	2"	15"
2004	4"	15"
2003	3"	15"
2005	5"	15"

SERIES 2000



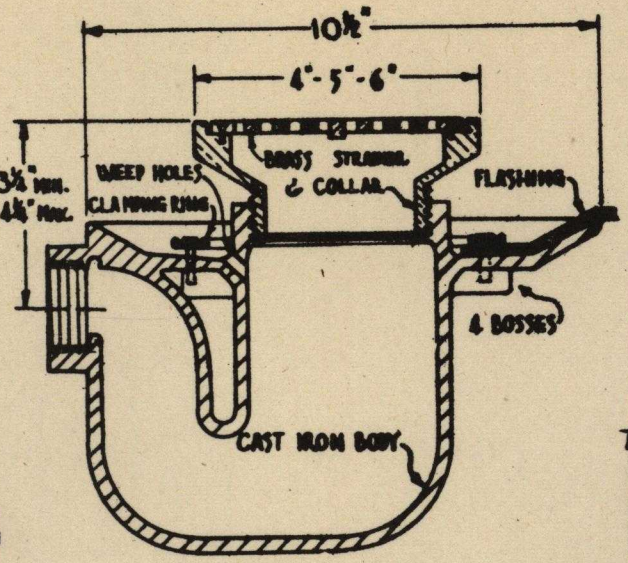
· CAST IRON · FLOOR DRAINS ·



SERIES 1400

WITH TAPPED OR CAULKED OUTLETS

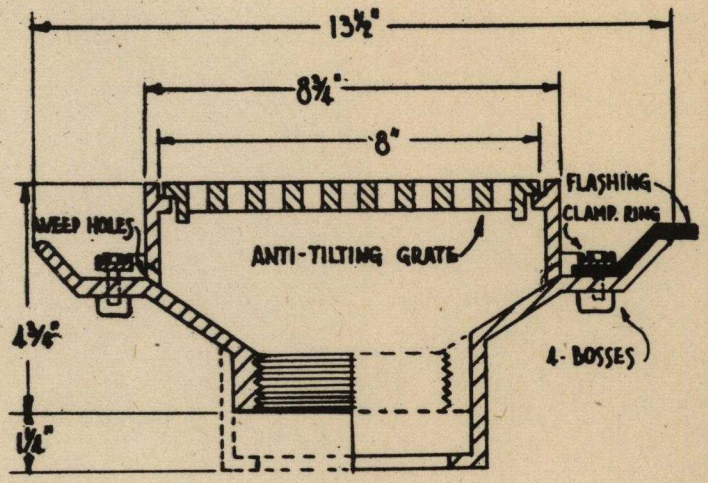
PATTERN Nº	OUTLET
1402	2"
1403	3"
1404	4"



SERIES 1300

WITH TAPPED OUTLET

PATTERN Nº	OUTLET
1302	2"
1303	3"



SERIES 1500

WITH TAPPED OR CAULKED OUTLETS

PATTERN Nº	OUTLET
1503	3"
1504	4"
1505	5"

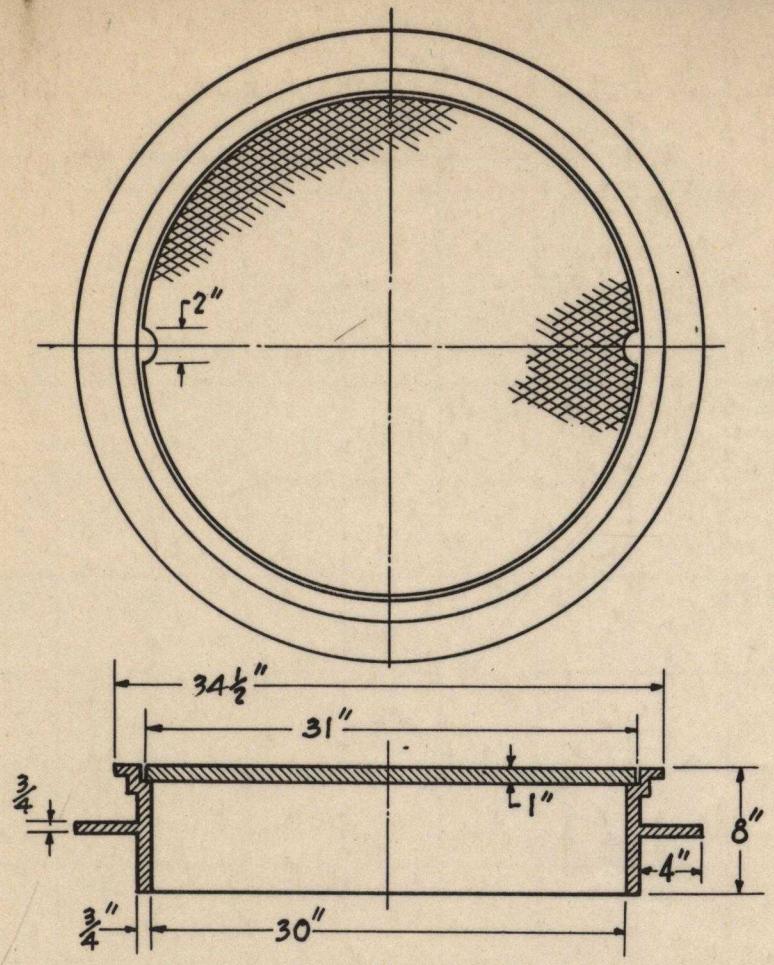
CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET Nº 227

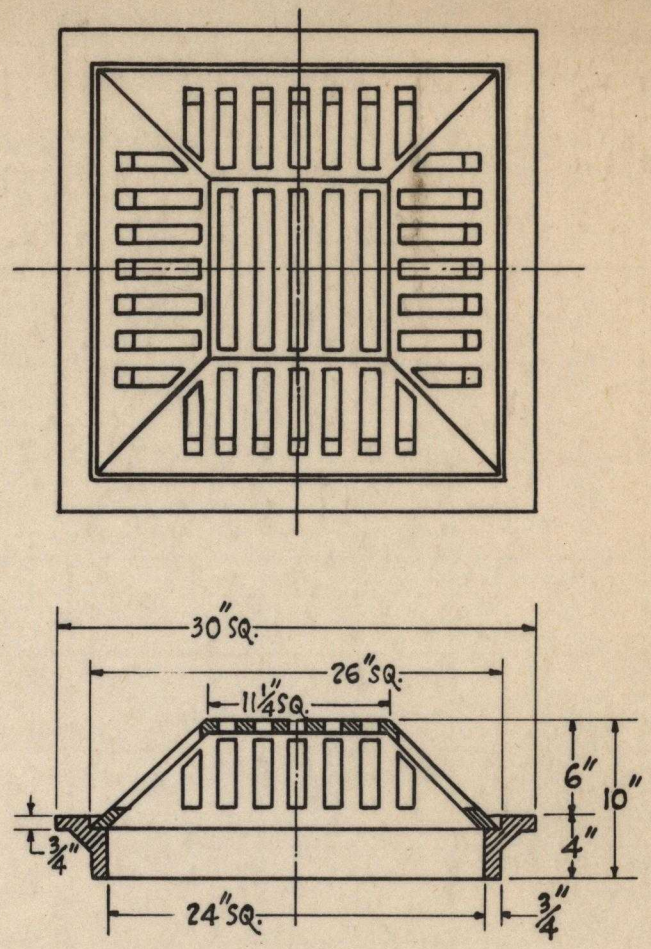
CAST IRON · FLOOR DRAINS ·

·CAST IRON·MANHOLE FRAME· COVER & CATCH BASIN·

·CONFORMING TO DETAILS U.S. ENGINEERS FOR USE ON FLOOD CONTROL PROJECTS·



PATTERN Nº 293
WEIGHT·475 LBS.



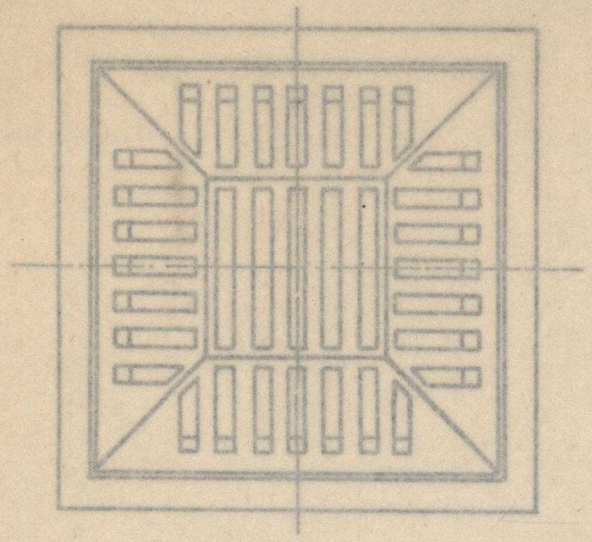
PATTERN Nº 295
WEIGHT·250 LBS.

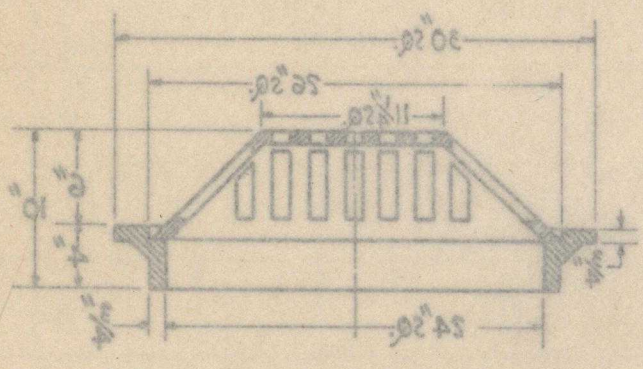
CONTRACTORS FOUNDRY INC., PHILA., PA.

MISC. DATA SHEET U.S. ENGRS Nº 1

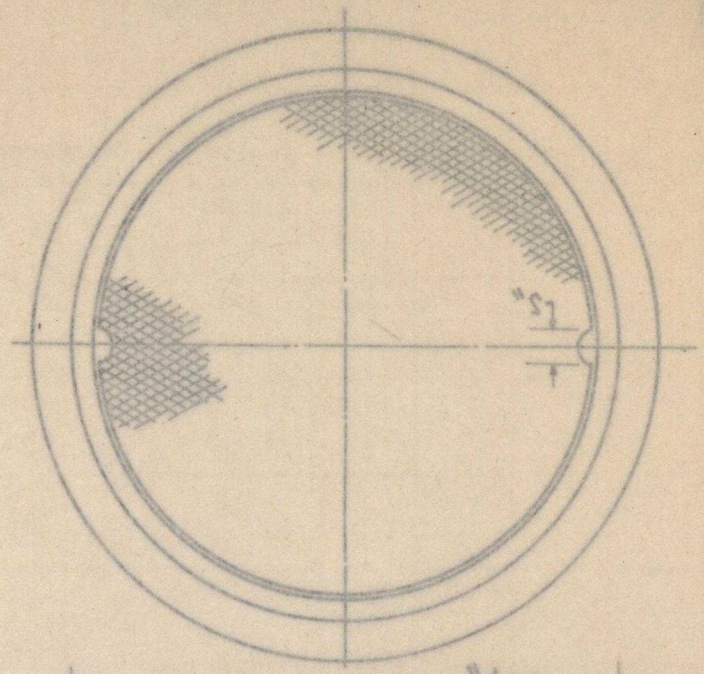
CAST IRON MANHOLE FRAME · COVER & CATCH BASIN

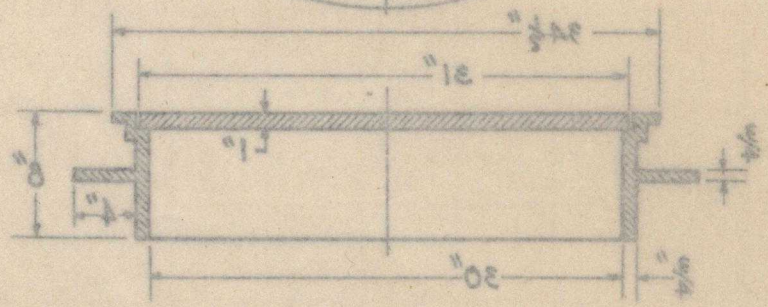
CONFORMING TO DETAILS U.S. ENGINEERS FOR USE ON FLOOD CONTROL PROJECTS





PATTERN No 295
WEIGHT 250 LBS.

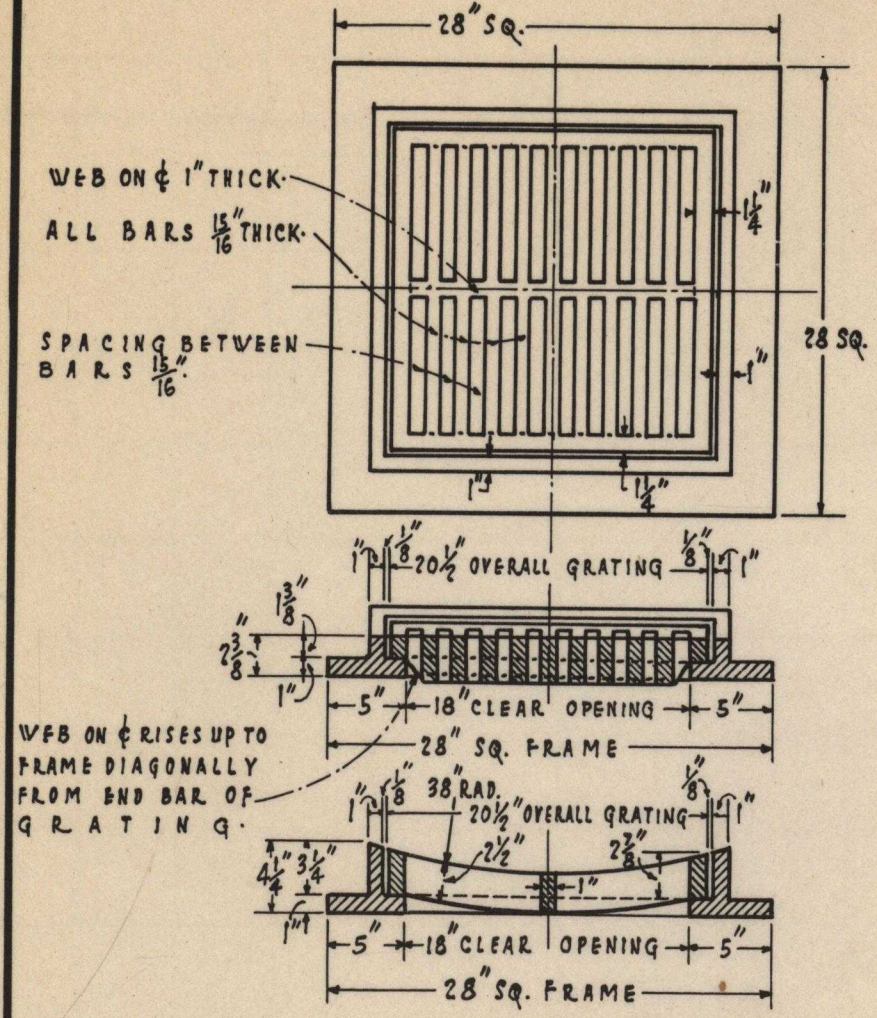




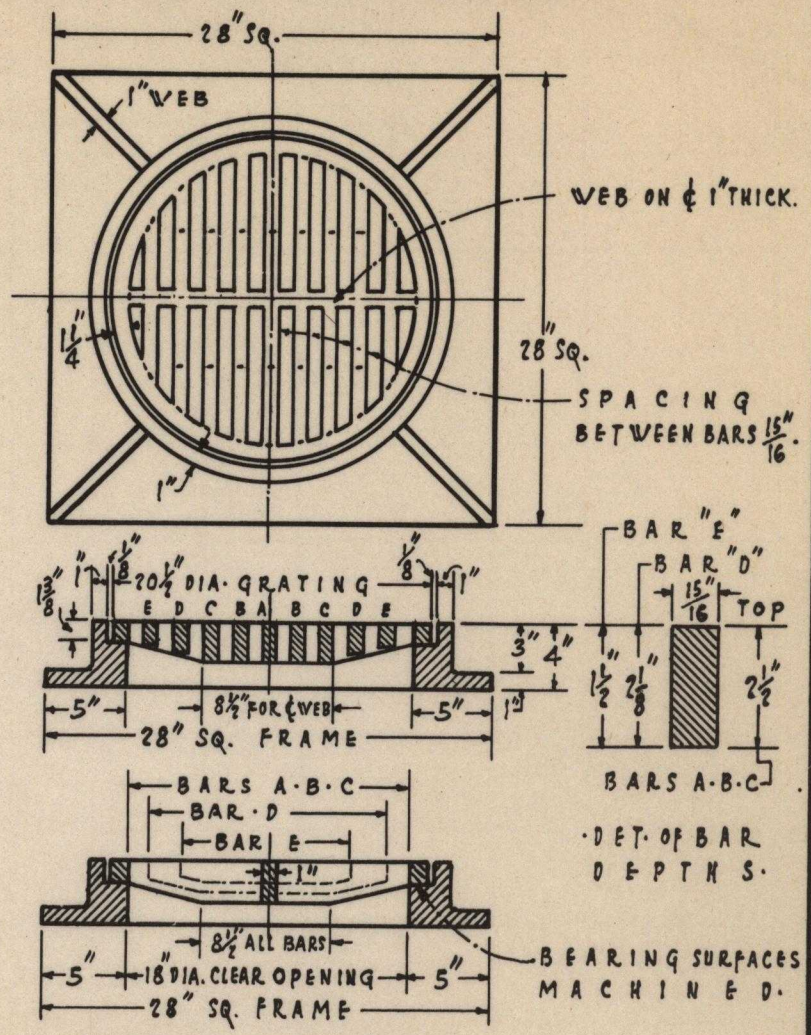
PATTERN No 293
WEIGHT 475 LBS.

CAST IRON · CATCH BASIN FRAMES & GRATINGS FOR AIRPORTS ·

[APPROVED BY REGIONAL C.A.A., LA GUARDIA FIELD, N.Y. & U.S. ENGINEERS, PHILA. PA]



PATTERN Nº 331
WEIGHT 360 LBS.



· DET. OF BAR DEPTHS ·

PATTERN Nº 332
WEIGHT 350 LBS.

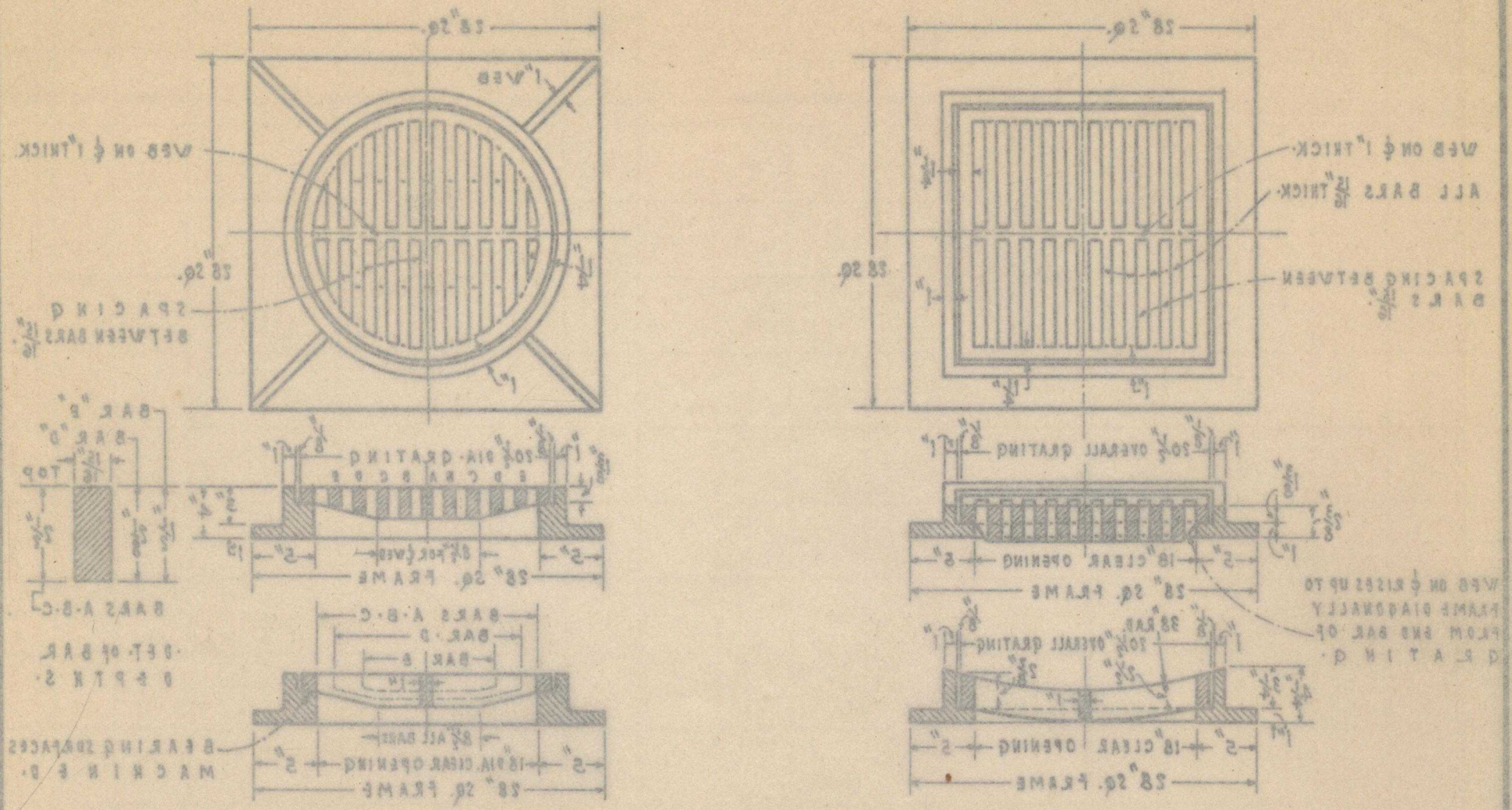
NOTE · THESE UNITS MADE OF CLASS 30 IRON TO STAND CONCENTRATED LOAD OF 75 LBS. PER SQ. IN OR 10,800 LBS. PER SQ. FT.

CONTRACTORS FOUNDRY INC., PHILA., PA.

DATA SHEET U.S. ENGRS. Nº 2

CAST IRON · CATCH BASIN FRAMES & GRATINGS FOR AIRPORTS

[APPROVED BY REGIONAL C.A.A., LA GUARDIA FIELD, N.Y. & U.S. ENGINEERS, PHILA. PA]



PATTERN No 331
WEIGHT 360 LBS.

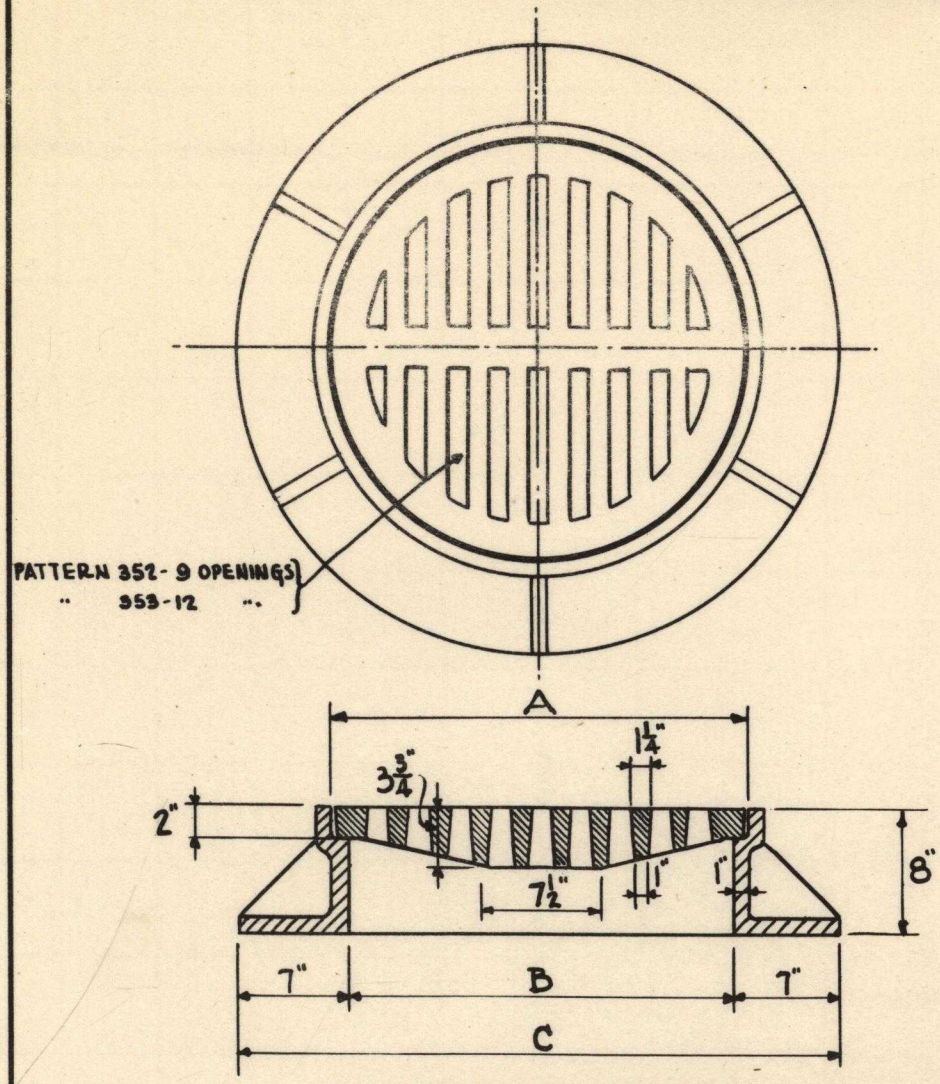
PATTERN No 332
WEIGHT 350 LBS.

NOTE · THESE UNITS MADE OF CLASS 30 IRON TO STAND CONCENTRATED LOAD OF 75 LBS. PER SQ.IN OR 10,800 LBS. PER SQ.FT.

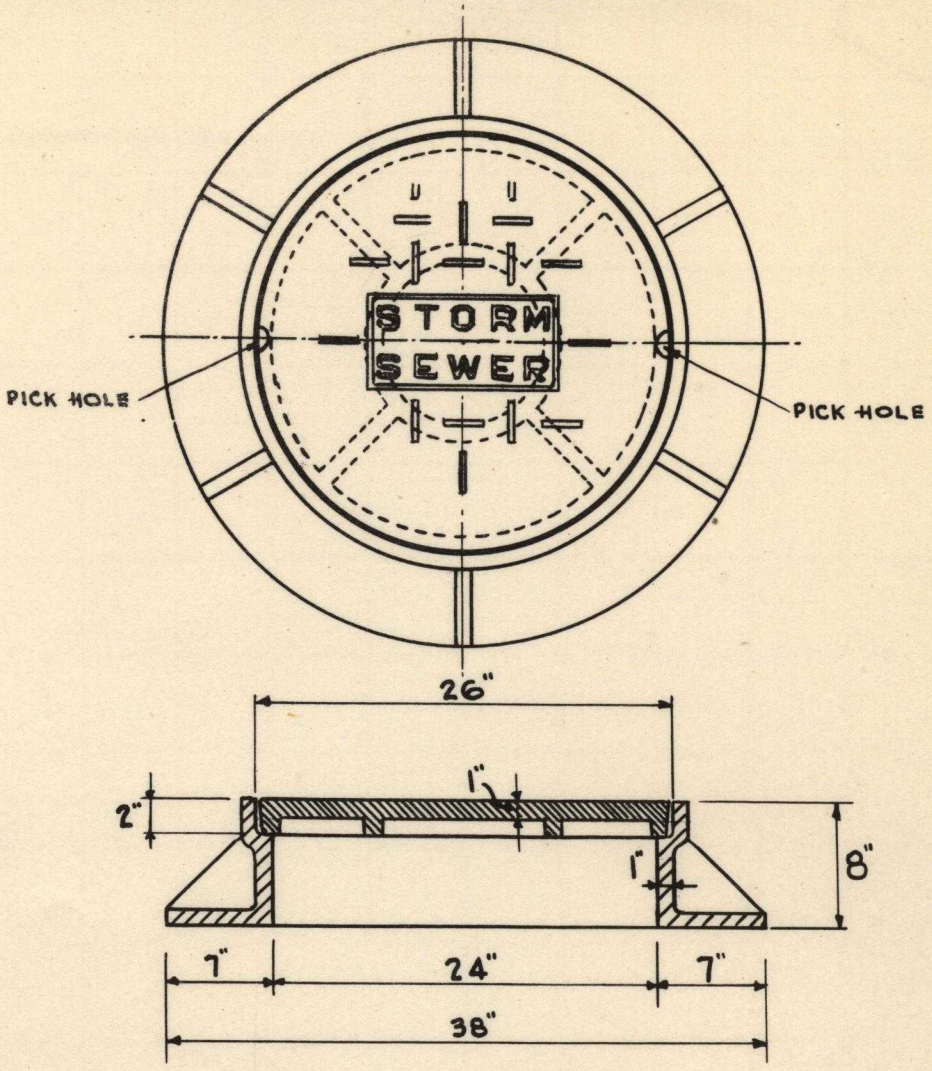
CONTRACTORS FOUNDRY INC., PHILA. PA.

DATA SHEET U.S.ENGRS. No 2

CAST IRON MANHOLE & CATCHBASIN FRAMES WITH SOLID COVER & GRATING COVERS FOR AIRPORTS



PATTERN No	A	B	C	WEIGHT
352	26"	24"	38"	600
353	34"	32"	46"	1100



PATTERN No 354 · WEIGHT 550 LBS

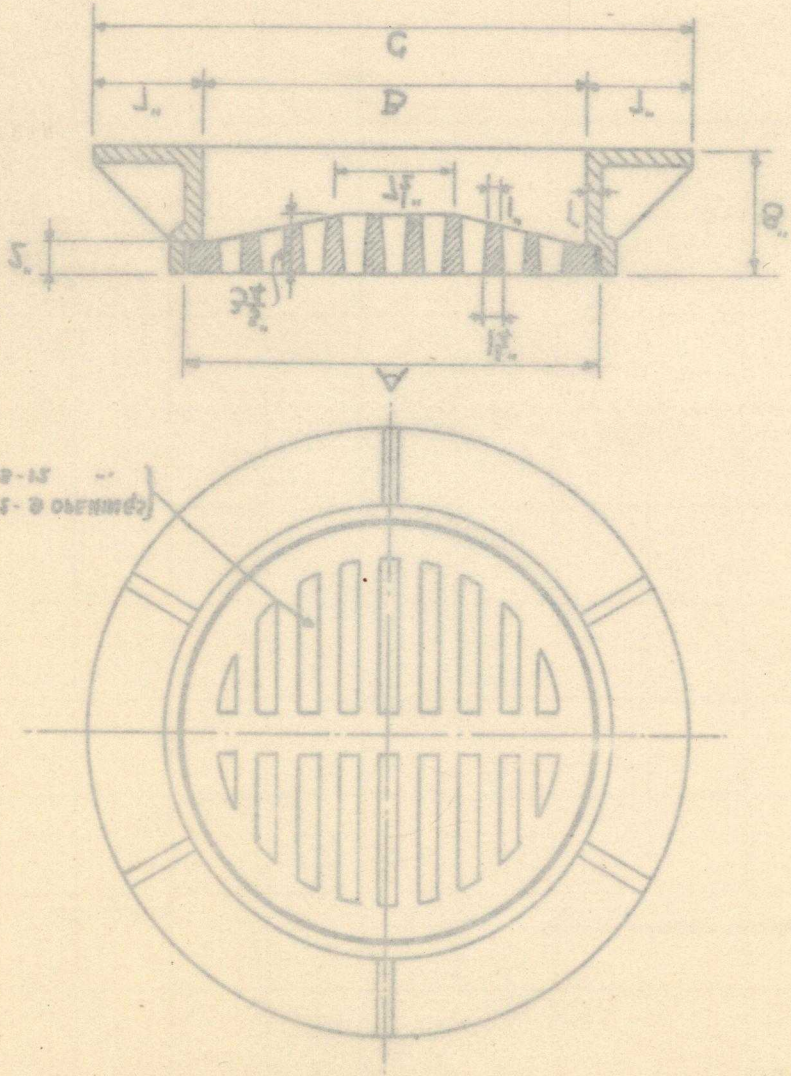
CONTRACTORS FOUNDRY, INC., PHILA., PA.

DATA SHEET · U.S. ENGRS. No 3

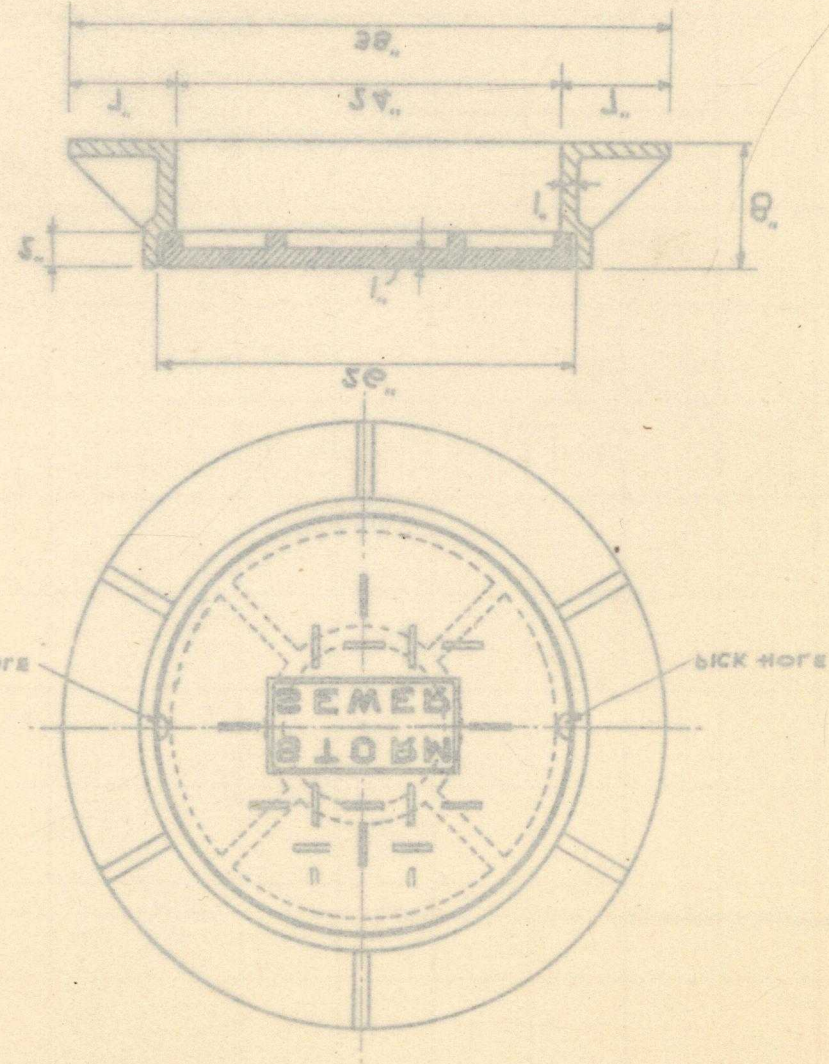
CONTRACTORS FOUNDRY, INC., PHILA., PA.

DATA SHEET - U.S. ENGRS. No. 3

PATTERN No.	A	B	C	WEIGHT
325	30"	24"	36"	600
325	30"	35"	40"	1100



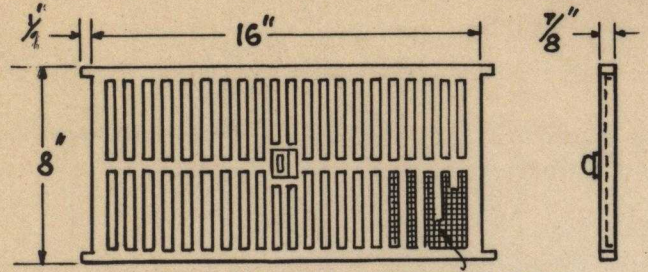
PATTERN No. 324 - WEIGHT 220 LBS



SOLID COVER & GRATING COVERS FOR AIRPORTS.
CAST IRON MANHOLE & CATCHBASIN FRAMES WITH

·CAST IRON· MATERIAL FOR LOW COST HOUSING PROJECTS·

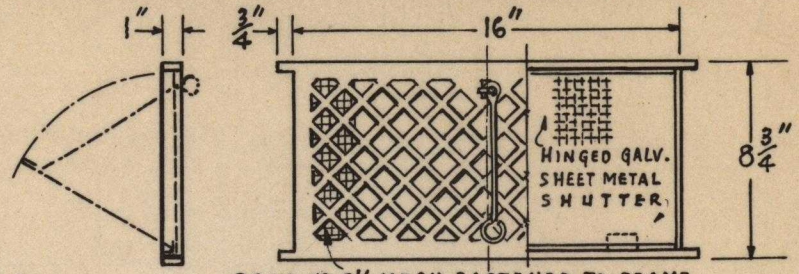
·FOUNDATION VENT GRILLES WITH SCREENS FOR UNEXCAVATED AREAS·



Nº 16 MESH BRONZE SCREEN BETWEEN SLIDING PART OF GRILLE·

SLIDING REGISTER TYPE
PATTERN Nº 668

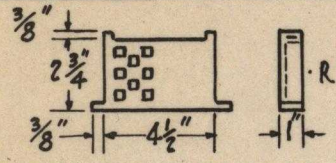
OTHER PATTERNS AVAILABLE·



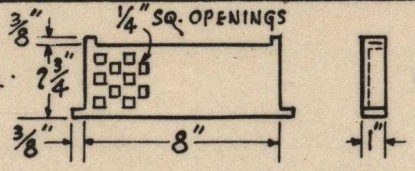
GALV·Nº 2½ MESH FASTENED TO FRAME.

HINGED SHUTTER TYPE
PATTERN Nº 697

·ROOF·VENTS·FOR·

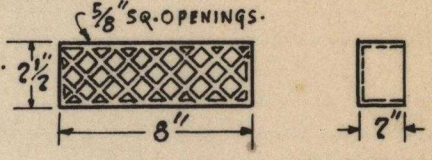


PATTERN Nº 673

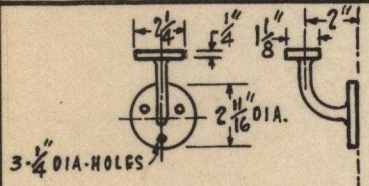


PATTERN Nº 674

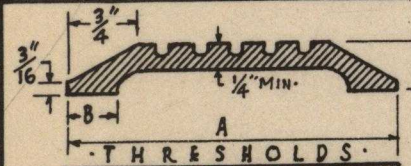
CRAWL·SPACES·



PATTERN Nº 675



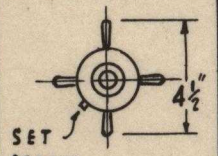
HANDRAIL BRACKET
PATTERN Nº 441
OTHER PATTERNS AVAILABLE·

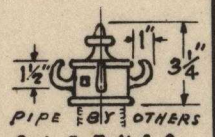


·THRESHOLDS·

PATTERN Nº	830	831	832
DIM. A	3"	3½"	4"
DIM. B	3/8"	½"	5/8"

FURNISHED IN LENGTHS AS REQUIRED.

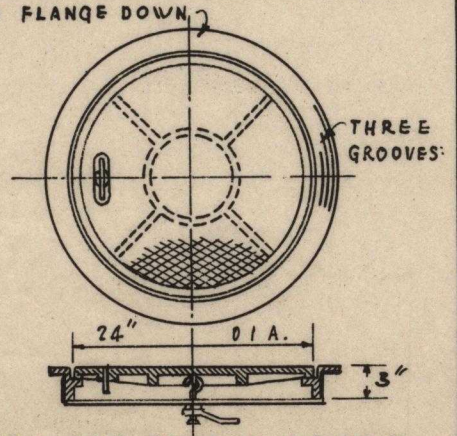




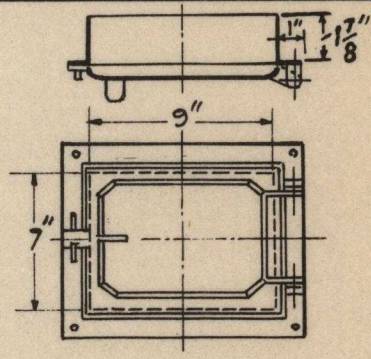
CLOTHES LINE POLE TOP

PATTERN Nº	SIZE
879	1¼" PIPE
880	1½" PIPE
881	2" PIPE
882	2" O.D. TUBING

FRAME IS REVERSIBLE AND CAN BE USED FLANGE DOWN.



·COAL HOLE RING & COVER·
WITH LOCKING BAR, HOOK & TAILNUT
PATTERN Nº 486
16"· 18"· 20" & 30" DIA. SIZES AVAILABLE·



·ASH PIT CLEANOUT DOOR·
POPULAR SIZES 7"×9"· 8"×10"· 10"×10"· 10"×12"
12"×15"· 12"×18"· 16"×20"· 16"×24"· 18"×18"· 18"×24"
24"×24"· 24"×30" 16 OTHER SIZES AVAILABLE·

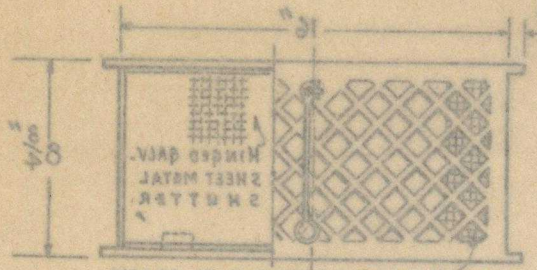
DATA SHEETS SHOWING OUR COMPLETE LINE OF CONSTRUCTION CASTINGS SENT UPON REQUEST.

CONTRACTORS FOUNDRY INC., PHILA., PA "SPECIALIZING IN GOVERNMENT CASTINGS" MISC. DATA SHEET·HSG·Nº1

REVISED 8/26/40·

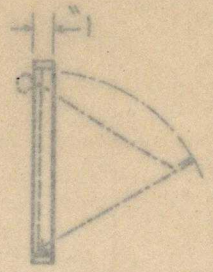
CAST IRON MATERIAL FOR LOW COST HOUSING PROJECTS

FOUNDATION VENT GRILLES WITH SCREENS FOR UNEXCAVATED AREAS

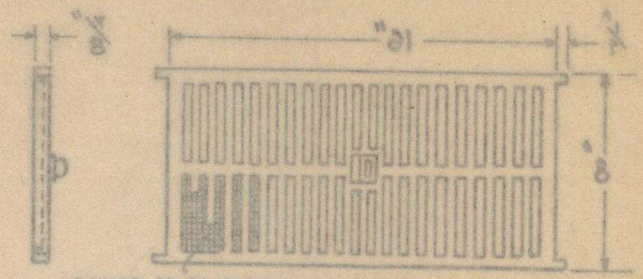


GALV. NO 2 1/2 MESH FASTENED TO FRAME.

HINGED SHUTTER TYPE
PATTERN No 697



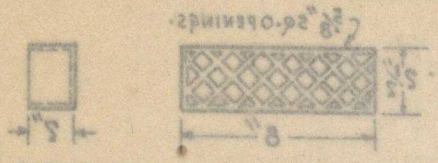
OTHER PATTERNS AVAILABLE.



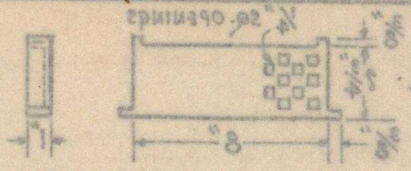
No 16 MESH BRONZE SCREEN BETWEEN SLIDING PART OF GRILLE.

SLIDING REGISTER TYPE
PATTERN No 668

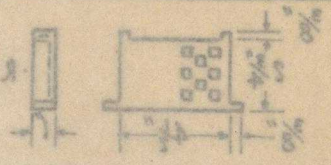
ROOF VENTS FOR CRAWL SPACES



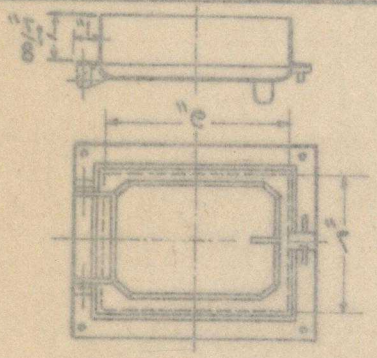
PATTERN No 675



PATTERN No 674



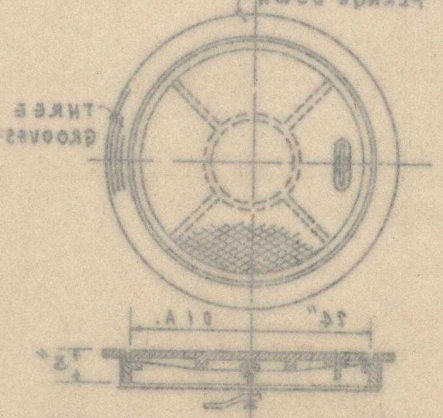
PATTERN No 673



ASH PIT CLEANOUT DOOR.

POPULAR SIZES 7"×9" · 8"×10" · 10"×10" · 10"×12" 12"×15" · 12"×18" · 16"×20" · 16"×24" · 18"×18" · 18"×24" 24"×24" · 24"×30" 16 OTHER SIZES AVAILABLE.

FRAME IS REVERSIBLE AND CAN BE USED FLANGE DOWN

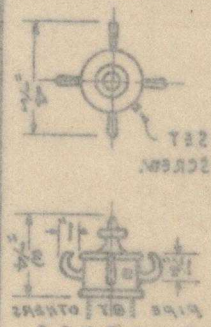


COAL HOLE RING & COVER.

WITH LOCKING BAR, HOOK & TALLNUT

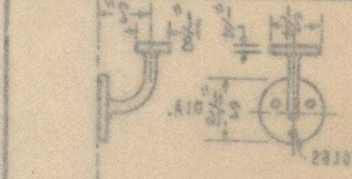
PATTERN No 486

16" · 18" · 20" & 30" DIA. SIZES AVAILABLE.



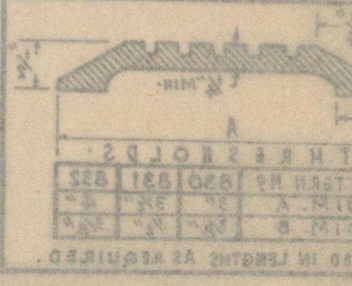
CLOTHES LINE POLE TOP

PATTERN No	SIZE
879	1 1/2" PIPE
880	1 1/2" PIPE
881	2" PIPE
882	2" O.D. TUBING



HANDRAIL BRACKET
PATTERN No 441

OTHER PATTERNS AVAILABLE.



THRESHOLDS.

PATTERN No	850	851	852
SIZE A	3"	3 1/2"	4"
SIZE B	3/4"	1"	1 1/2"

FURNISHED IN LENGTHS AS REQUIRED.

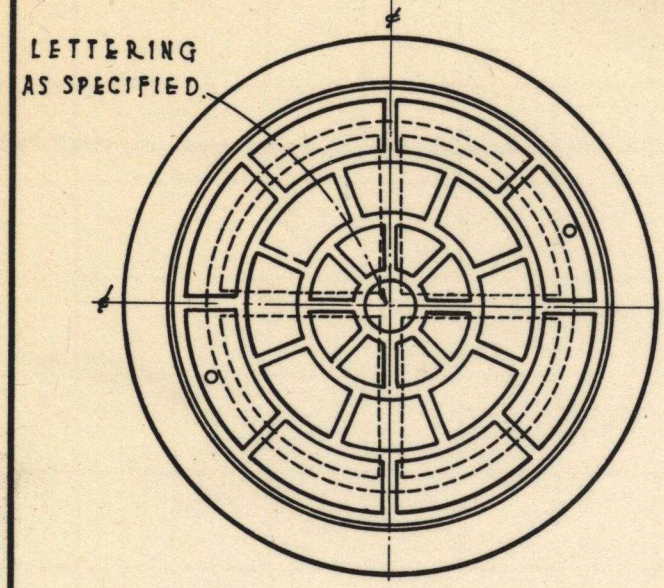
DATA SHEETS SHOWING OUR COMPLETE LINE OF CONSTRUCTION CASTINGS SENT UPON REQUEST.

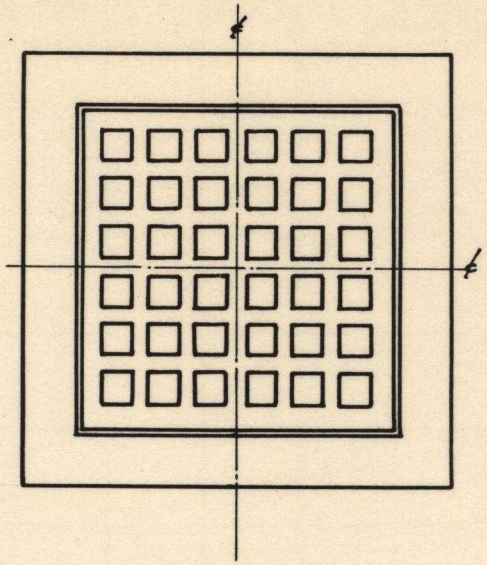
CONTRACTORS FOUNDRY INC., PHILA., PA. "SPECIALIZING IN GOVERNMENT CASTINGS" MISC. DATA SHEET-HSG-NO1

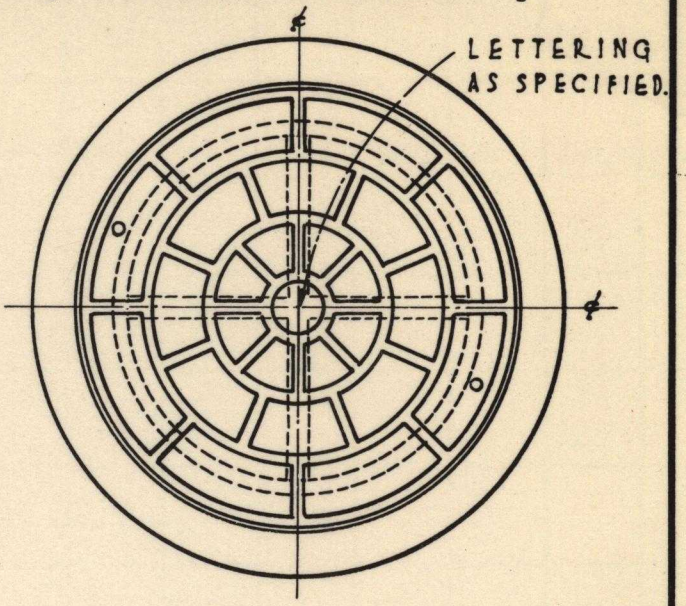
REVISED 4/20/40.

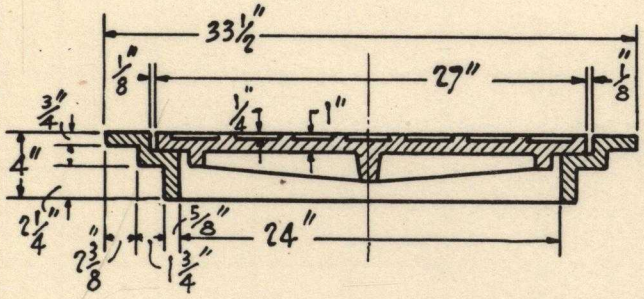
CAST IRON · INLET & MANHOLE FRAMES & COVERS ·

[AS SPECIFIED BY U.S. WAR DEPARTMENT CONSTRUCTING QUARTERMASTER DIVISION.]

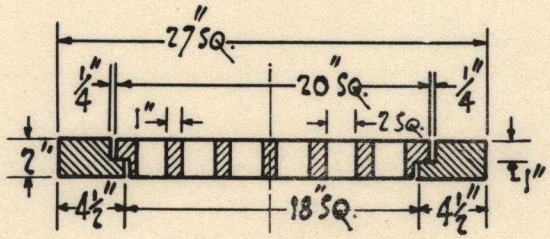




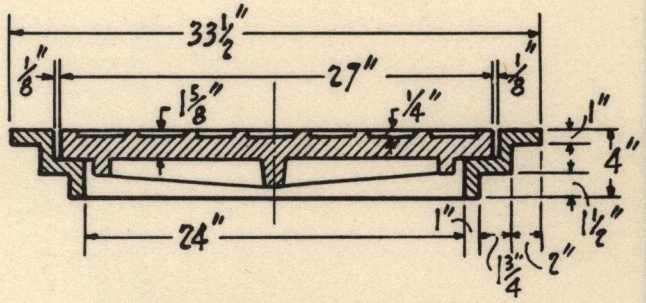




PATTERN Nº 291
WEIGHT 300 LBS.
[C.Q.M. PLAN NUMBER 672-197]



PATTERN Nº 392
WEIGHT 350 LBS.
[C.Q.M. PLAN NUMBER 672-197]



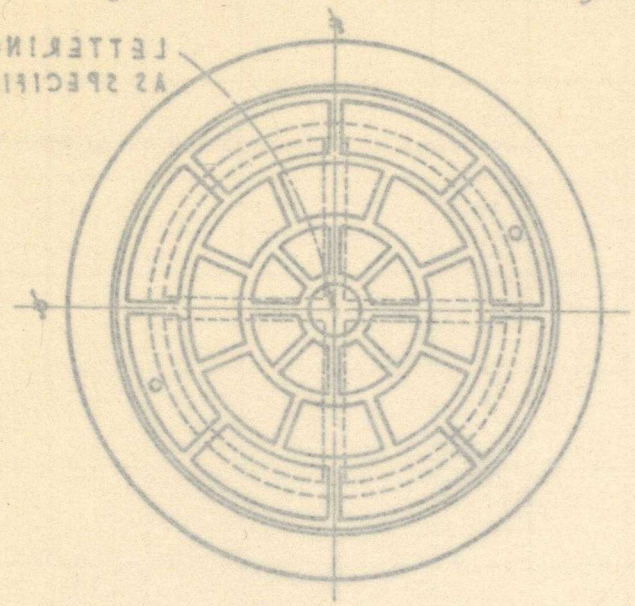
PATTERN Nº 449
WEIGHT 450 LBS.
[C.Q.M. PLAN NUMBER 672-197]

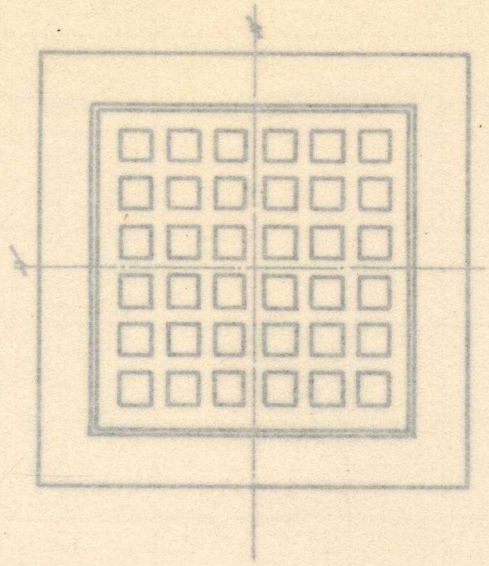
CONTRACTORS FOUNDRY INC., PHILA., PA.

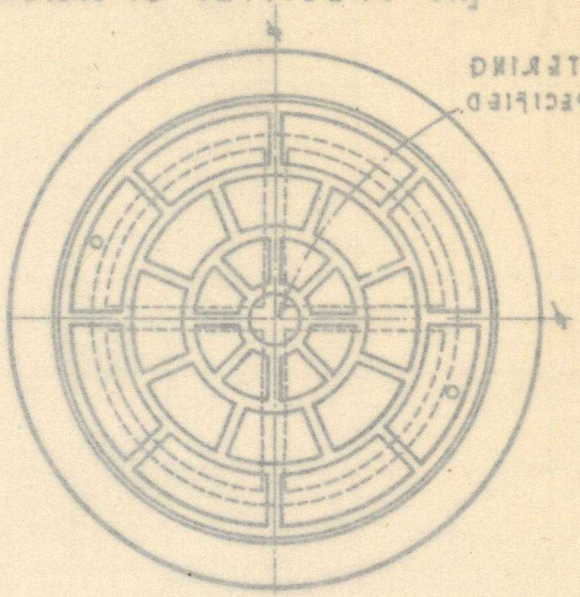
DATA SHEET · CQM · Nº 0

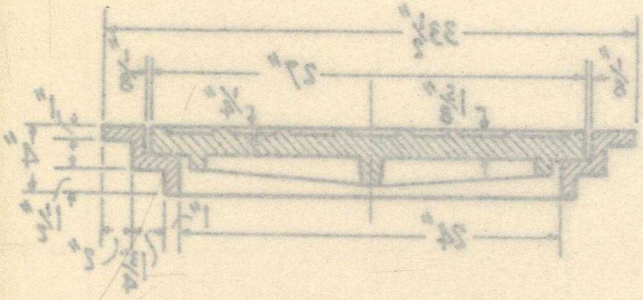
CAST IRON INLET & MANHOLE FRAMES & COVERS.

[As specified by U.S.Var. Department Constructing Quarter-Master Division.]

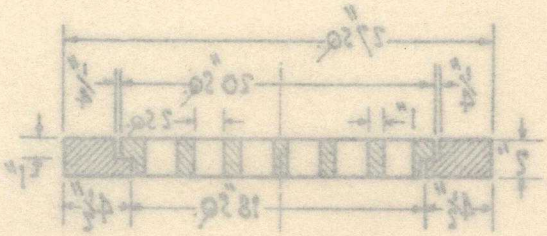




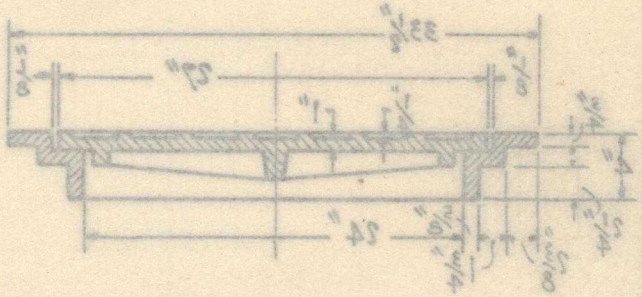




PATTERN No 449
WEIGHT 450 LBS.
[C.&M. PLAN NUMBER 672-197]



PATTERN No 392
WEIGHT 350 LBS.
[C.&M. PLAN NUMBER 672-197]



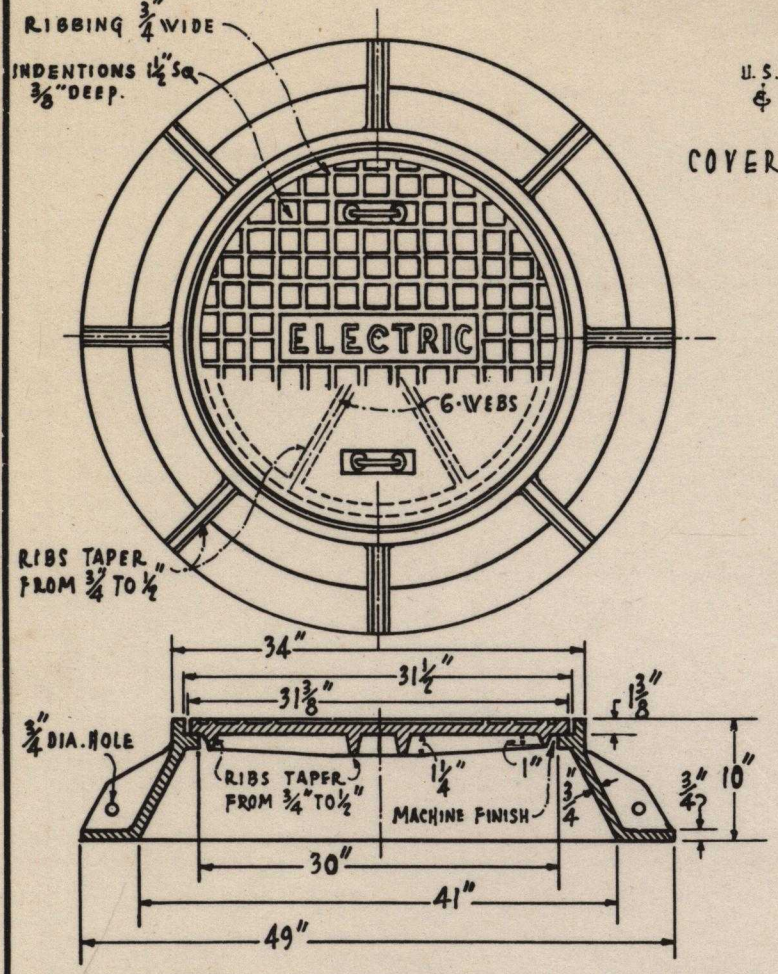
PATTERN No 291
WEIGHT 300 LBS.
[C.&M. PLAN NUMBER 672-197]

CONTRACTORS FOUNDRY INC., PHILA., PA.

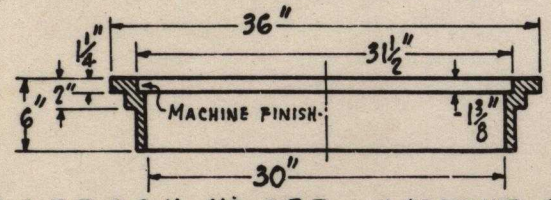
DATA SHEET · C&M · No 0

·CAST IRON · MANHOLE FRAMES & COVERS·

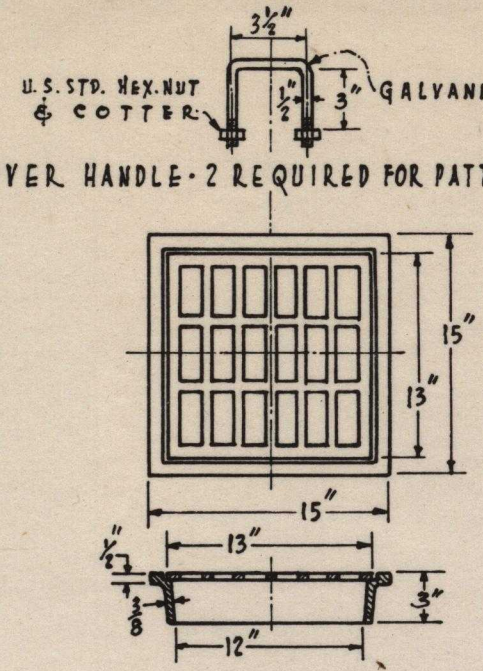
[CONSTRUCTING QUARTERMASTER DETAILS.]



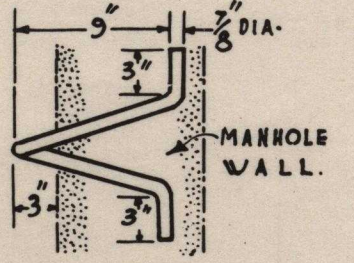
PATTERN Nº 287 ·WEIGHT 730 LBS.



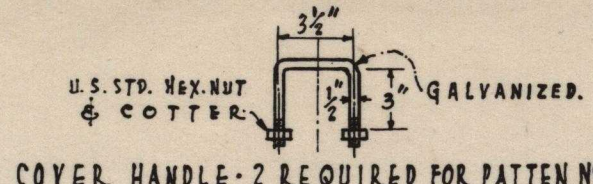
PATTERN Nº 297 · WEIGHT 600 LBS.



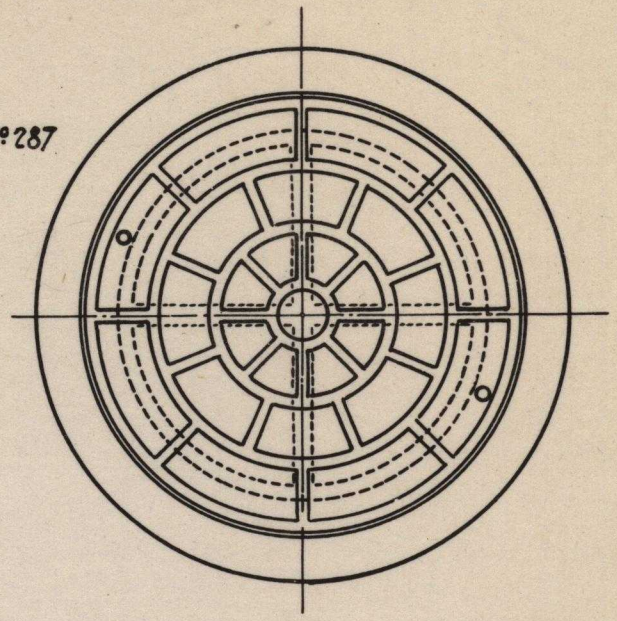
SUMP FRAME & GRATING COVER·PATTERN Nº 288 WEIGHT · 50 LBS.

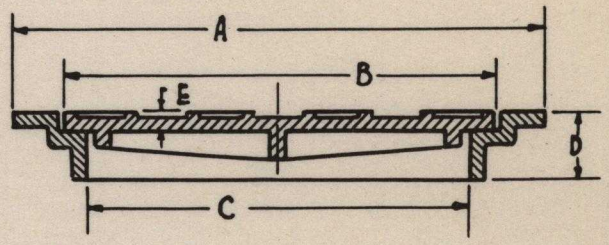


·STEEL PULLING IRON·
·GALVANIZED·
PATTERN Nº 823



COVER HANDLE · 2 REQUIRED FOR PATTEN Nº 287





PATTERN Nº	A	B	C	D	E	WEIGHT
289	29 1/2	23	20	4	1	190
290	28 1/2	26 1/4	24	3	1	190
291	33 1/2	27	24	4	1	300
292	39 1/2	33 1/4	30	4	1 1/4	475

NOTE · PATTERN Nºs 287 · 297 & 288 AND PULLING IRON ARE IN ACCORDANCE WITH WAR DEPARTMENT DR. Nº 675·630

CONTRACTORS FOUNDRY INC., PHILA. PA.

MISC. DATA SHEET · CQM · Nº 1

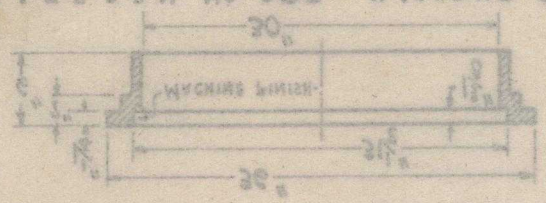
REVISED · 1/25/41

CONTRACTORS FOUNDRY INC. PHILA. PA.

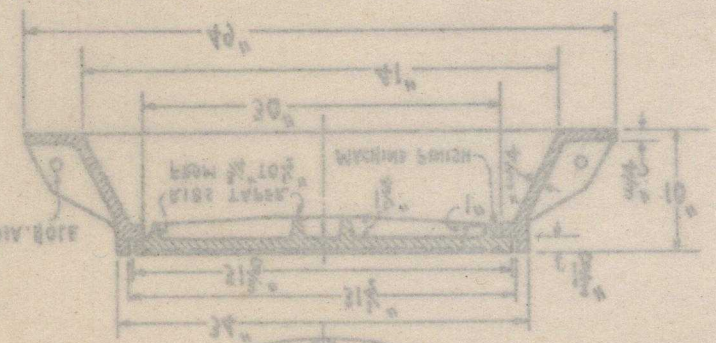
MISC. DATA SHEET-COM-N91

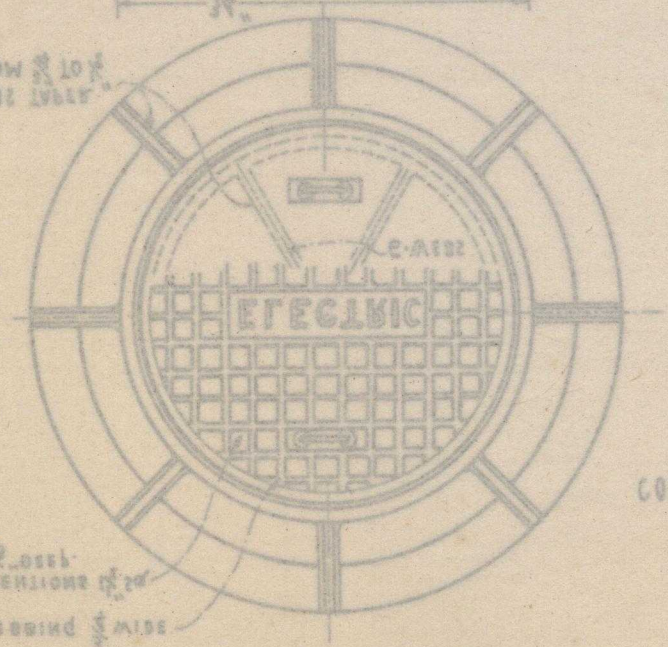
NOTE-PATTERN NOS 287-297 & 288 AND BUILDING IRON ARE IN ACCORDANCE WITH WAR DEPARTMENT DR. NO 675-650

PATTERN NO 297 - WEIGHT 600 LBS.



PATTERN NO 287 - WEIGHT 270 LBS.

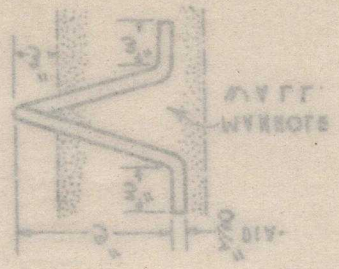




PATTERN NO 287

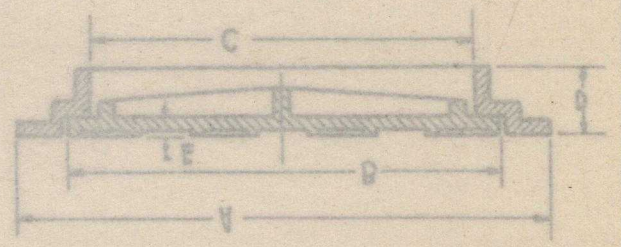
·CAST IRON·

·GALVANIZED·



WEIGHT - 50 LBS.

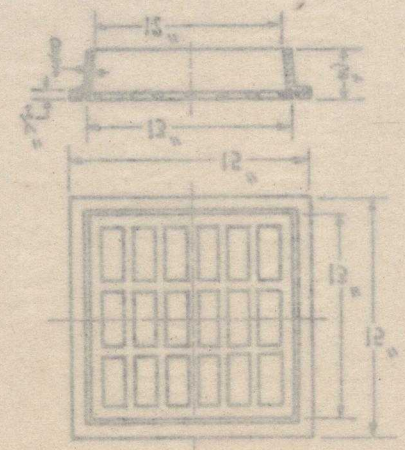
PATTERN NO	A	B	C	D	E	WEIGHT
287	24 3/4	21	30	4	1 1/2	270
297	30 3/4	27	36	4	1	600
288	24 3/4	21	30	4	1	130
287	24 3/4	21 3/4	30	4	1	130
297	30 3/4	27 3/4	36	4	1 1/2	615

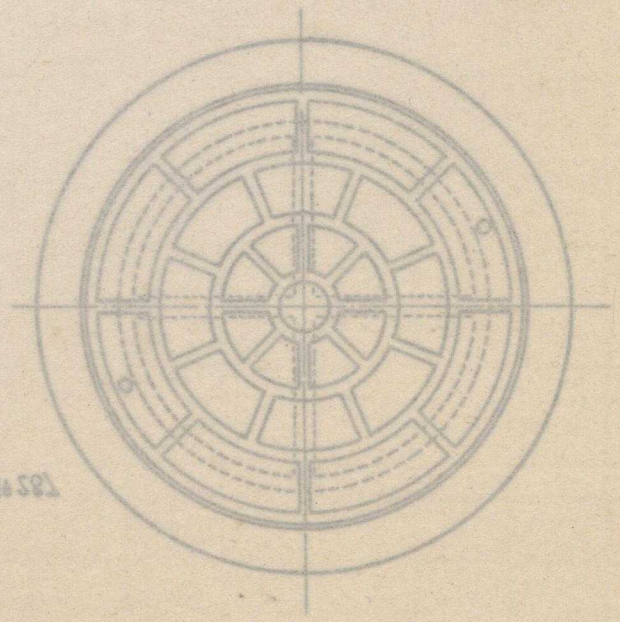


SUMP FRAME & GRATING

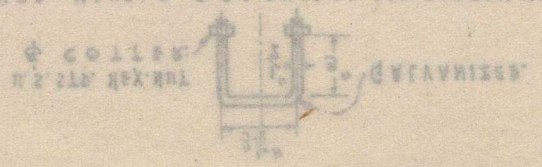
COVER-PATTERN NO 288

WEIGHT - 50 LBS.





COVER HANDLE - 5 REQUIRED FOR PATTERN NO 287

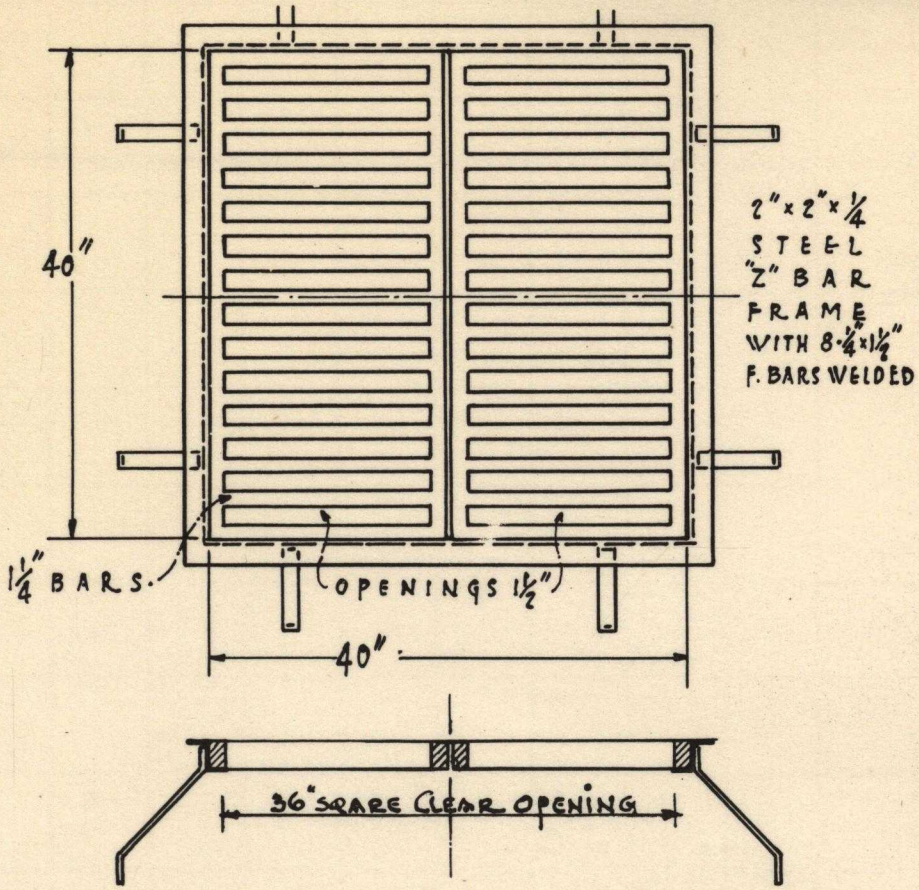


[CONSTRUCTING QUARTERMASTER DETAILS]

·CAST IRON· MANHOLE FRAMES & COVERS·

CAST IRON GRATING COVERS & FRAMES.

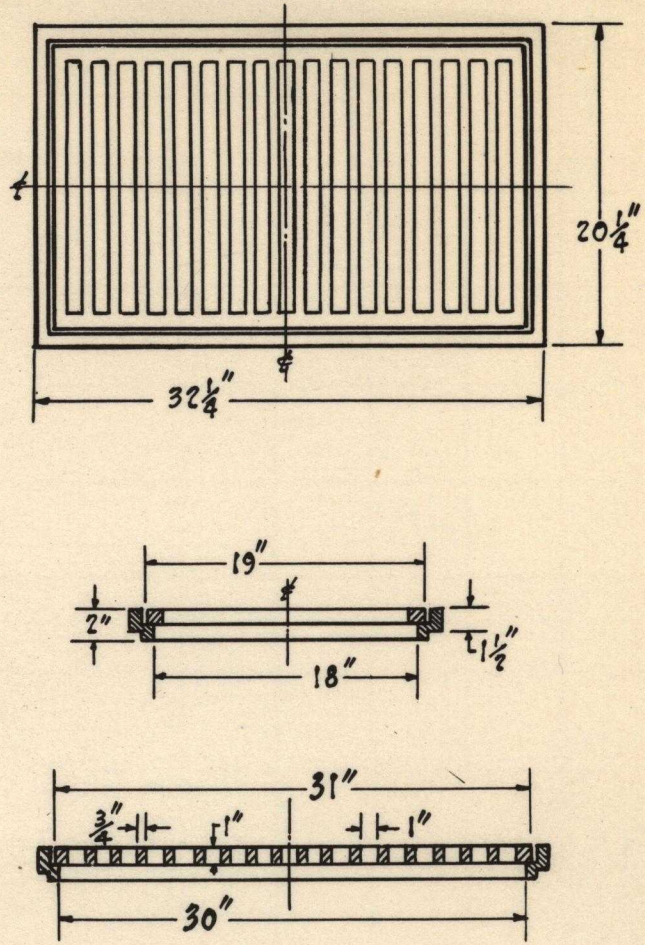
[AS SPECIFIED BY U.S. WAR DEPARTMENT CONSTRUCTING QUARTERMASTER DIVISION]



·TYPICAL·SECTION·

PATTERN Nº446
WEIGHT 675·LBS.

FOR USE AS SUMP PIT COVER OVER WASH RACK IN MOTOR REPAIR BLDGS [C.Q.M. PLAN Nº 700-1391]



PATTERN Nº390
WEIGHT 125·LBS.

FOR USE AS AREA GRATING OVER GREASE PITS IN SHOP MOTOR REPAIR BLDGS.

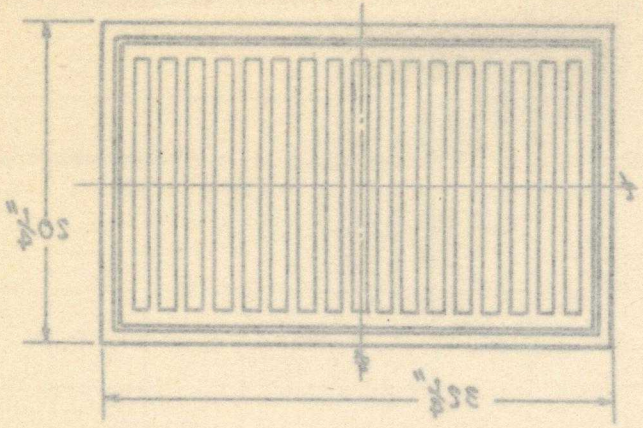
CONTRACTORS FOUNDRY INC., PHILA., PA.

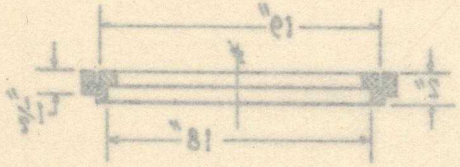
MISC. DATA SHEET C.Q.M. Nº3

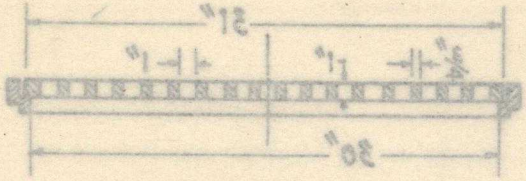
REVISED 3/17/41

CAST IRON GRATING COVERS & FRAMES.

[AS SPECIFIED BY U.S. WAR DEPARTMENT CONSTRUCTING QUARTERMASTER DIVISION]

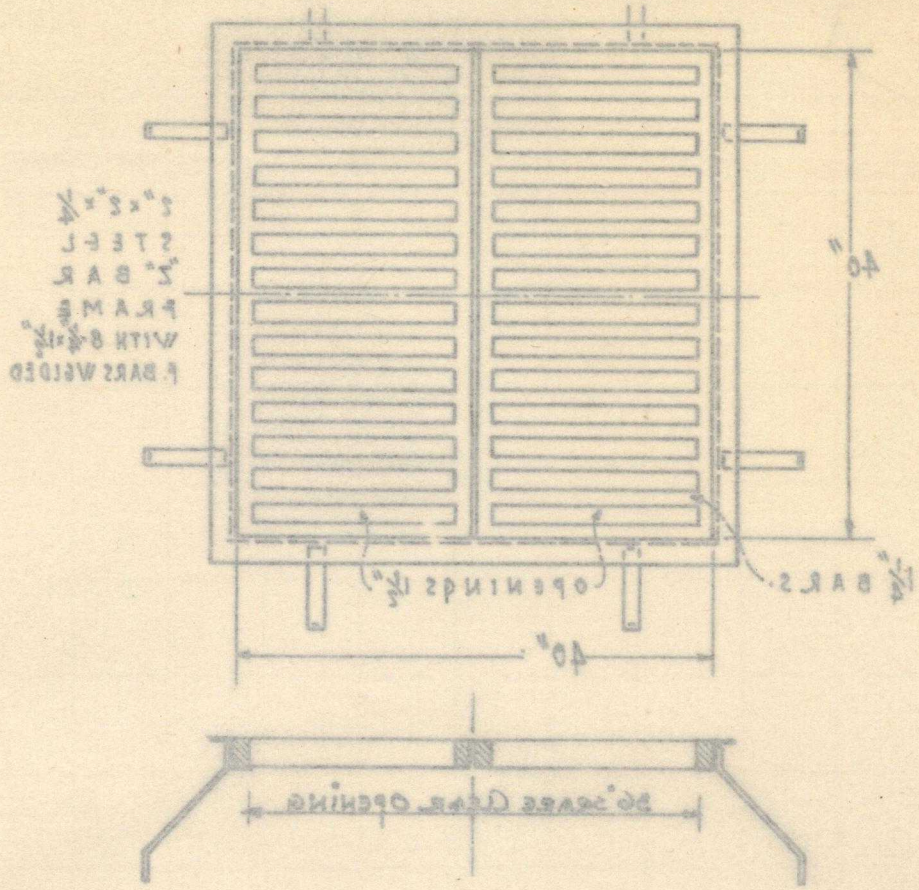






PATTERN No 390
WEIGHT 125 LBS.

FOR USE AS AREA GRATING OVER GREASE PITS IN SHOP MOTOR REPAIR BLDGS.



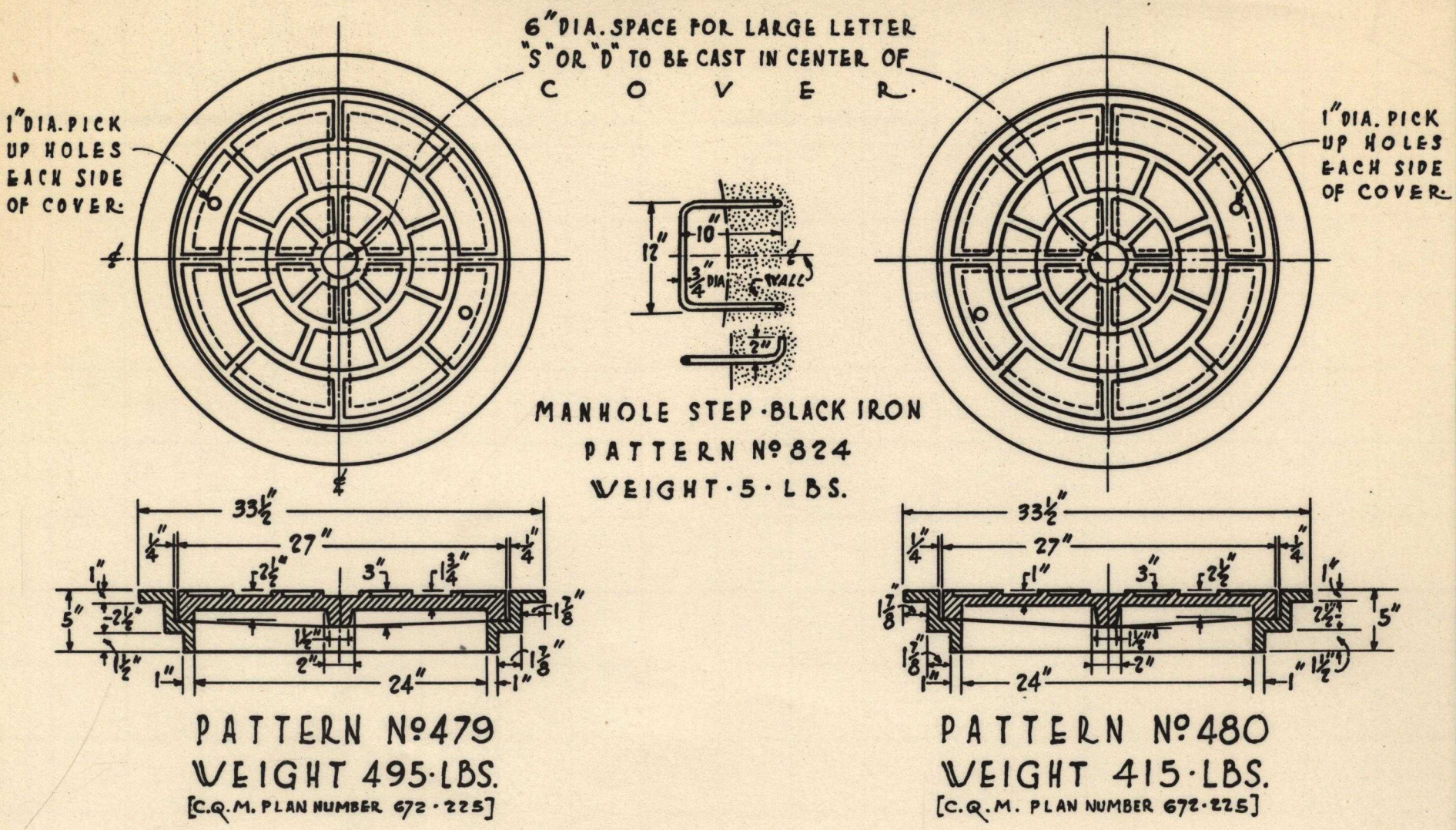
TYPICAL SECTION

PATTERN No 446
WEIGHT 675 LBS.

FOR USE AS SUMP PIT COVER OVER WASH RACK IN MOTOR REPAIR BLDGS [C.G.M. PLAN No 700-1395]

·CAST IRON · MANHOLE FRAMES & COVERS·

[AS SPECIFIED BY U.S. WAR DEPARTMENT CONSTRUCTING QUARTERMASTER DIVISION]



PATTERN No 479
WEIGHT 495 · LBS.
[C.Q.M. PLAN NUMBER 672 · 225]

PATTERN No 480
WEIGHT 415 · LBS.
[C.Q.M. PLAN NUMBER 672 · 225]

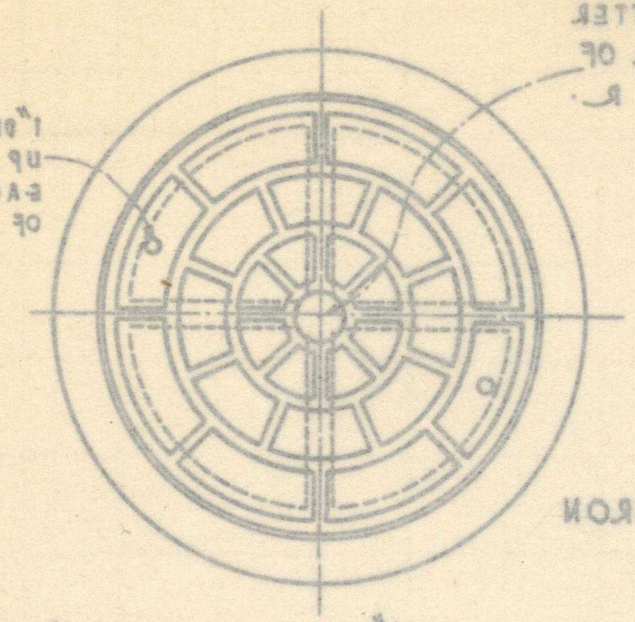
CONTRACTORS FOUNDRY INC., PHILA., PA.

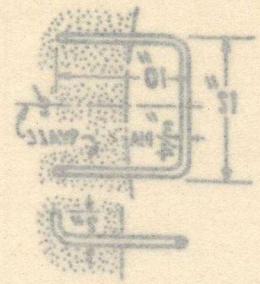
MISC. DATA SHEET · CQM · No 4

REVISED 1/18/41

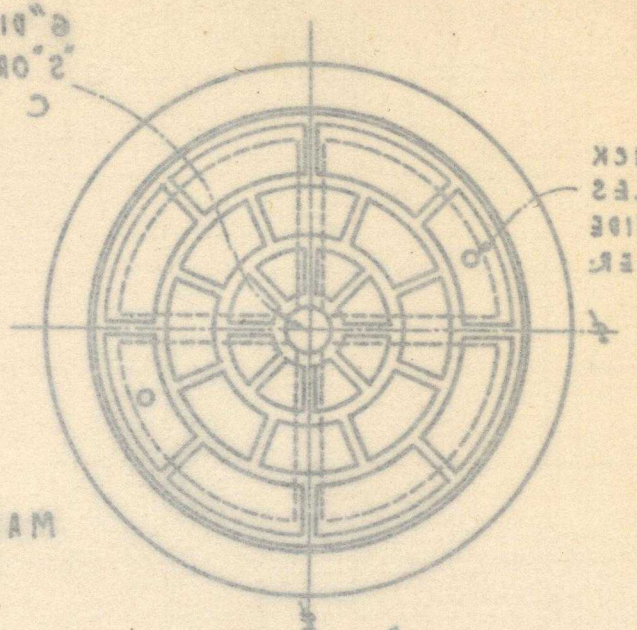
CAST IRON · MANHOLE FRAMES & COVERS.

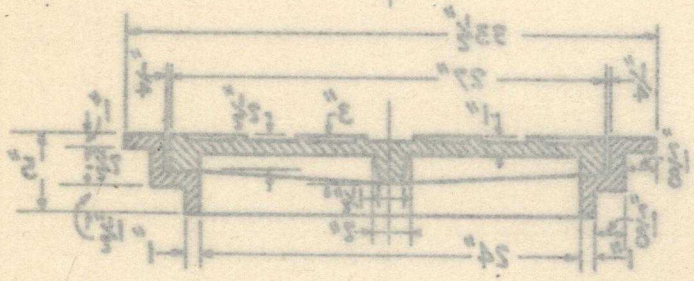
[AS SPECIFIED BY U.S. WAR DEPARTMENT CONSTRUCTING QUARTERMASTER DIVISION]



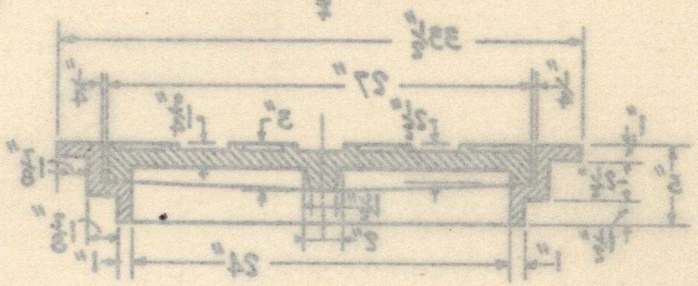


MANHOLE STEP · BLACK IRON
PATTERN Nº 824
WEIGHT · 3 · LBS.





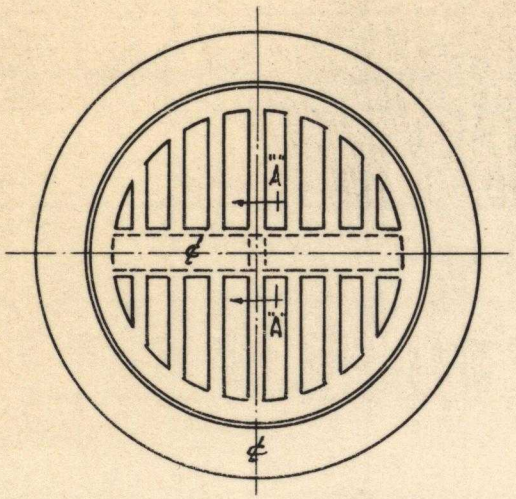
PATTERN Nº 480
WEIGHT 415 · LBS.
[C.G.M. PLAN NUMBER 672 · 225]

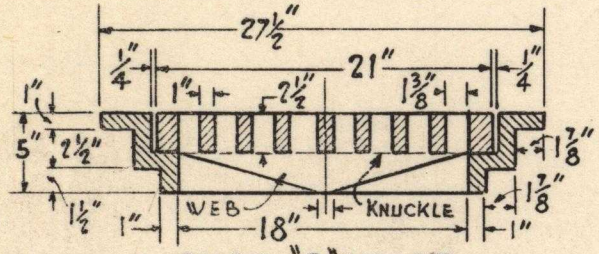


PATTERN Nº 479
WEIGHT 495 · LBS.
[C.G.M. PLAN NUMBER 672 · 225]

·CAST IRON·INLET FRAMES WITH GRATINGS & SOLID COVER·

[AS SPECIFIED BY U.S. WAR DEPARTMENT CONSTRUCTING QUARTERMASTER DIVISION]



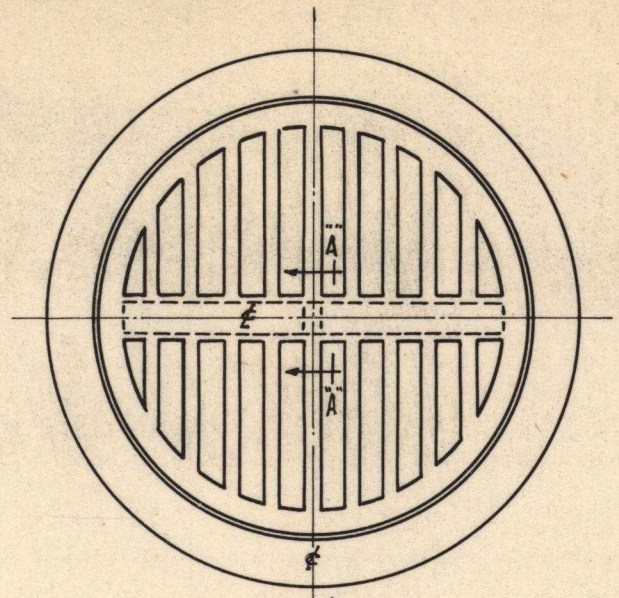


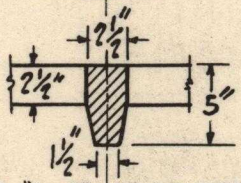
TYPE "B" INLET

PATTERN No.482

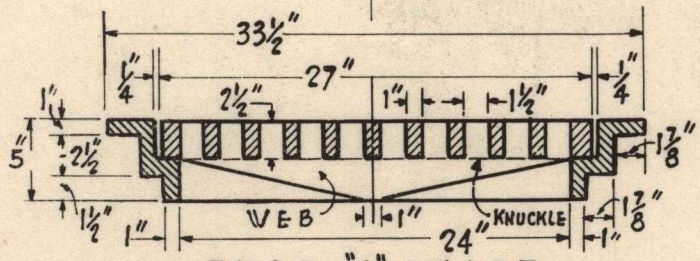
WEIGHT 335·LBS.

[C.Q.M. PLAN NUMBER 672·224]





·SEC. "A-A" THRU WEB·

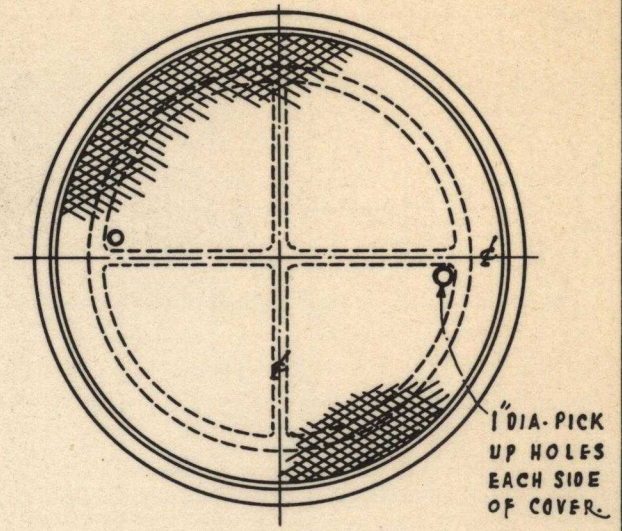


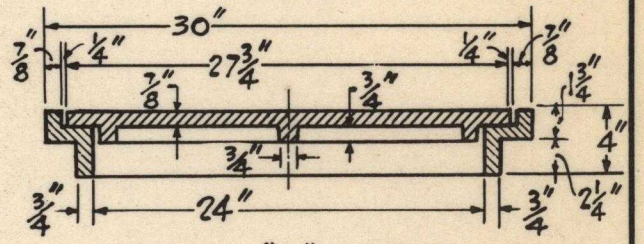
·TYPE "A" INLET·

PATTERN No.481

WEIGHT 455·LBS.

[C.Q.M. PLAN NUMBER 672·224]





TYPE "C" INLET

PATTERN No.483

WEIGHT 250·LBS.

[C.Q.M. PLAN NUMBER 672·224]

CONTRACTORS FOUNDRY INC., PHILA., PA.

MISC. DATA SHEET·CQM·No.5

CONTRACTOR'S FOUNDRY INC. PHILA. PA.

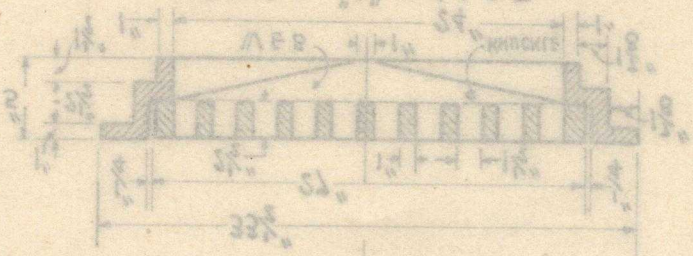
MISC. DATA SHEET - COM-N52

[C.O.M. PLAN NUMBER 675-554]

WEIGHT 455-LBS

PATTERN No.481

TYPE "A" INLET

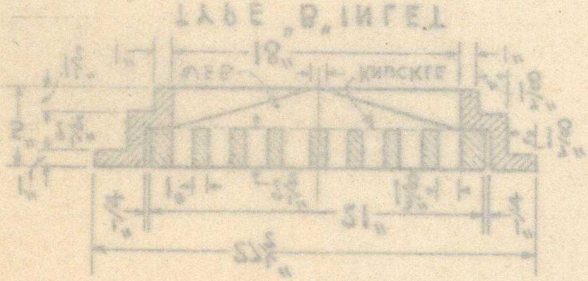


[C.O.M. PLAN NUMBER 675-553]

WEIGHT 330-LBS

PATTERN No.482

TYPE "B" INLET

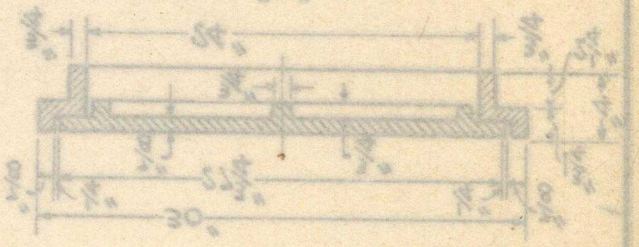


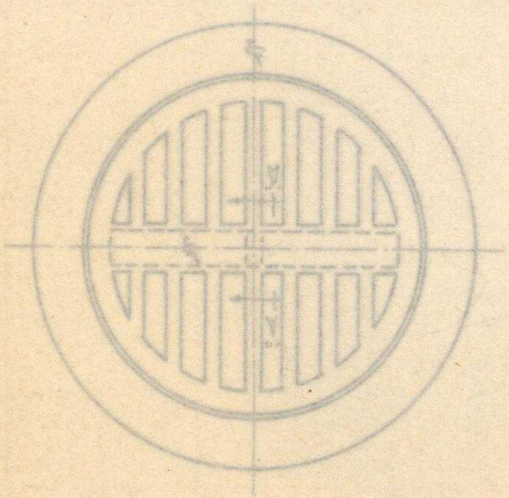
[C.O.M. PLAN NUMBER 675-552]

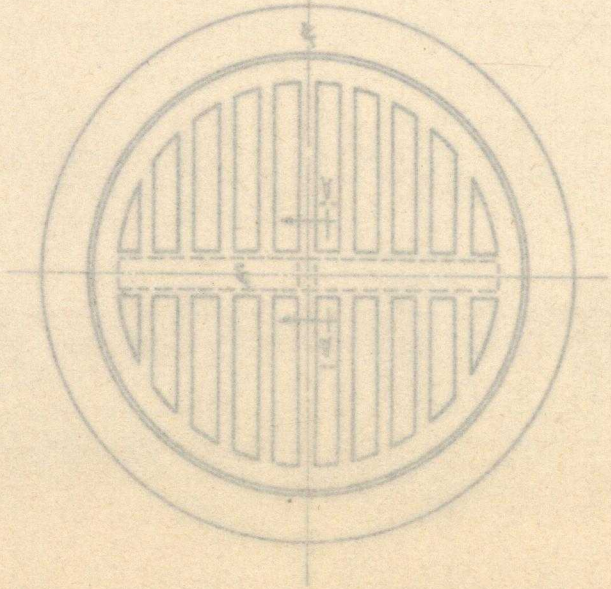
WEIGHT 250-LBS

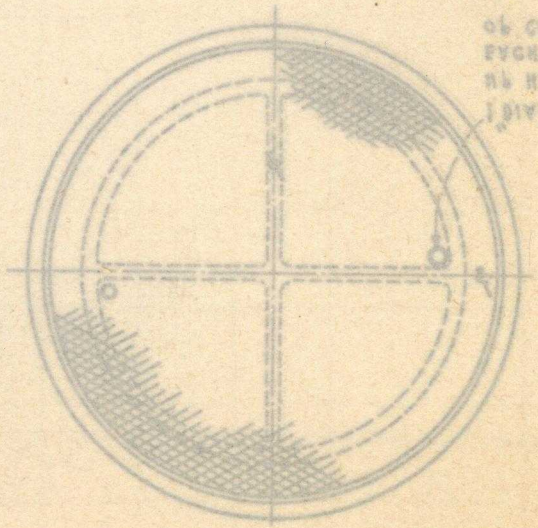
PATTERN No.483

TYPE "C" INLET







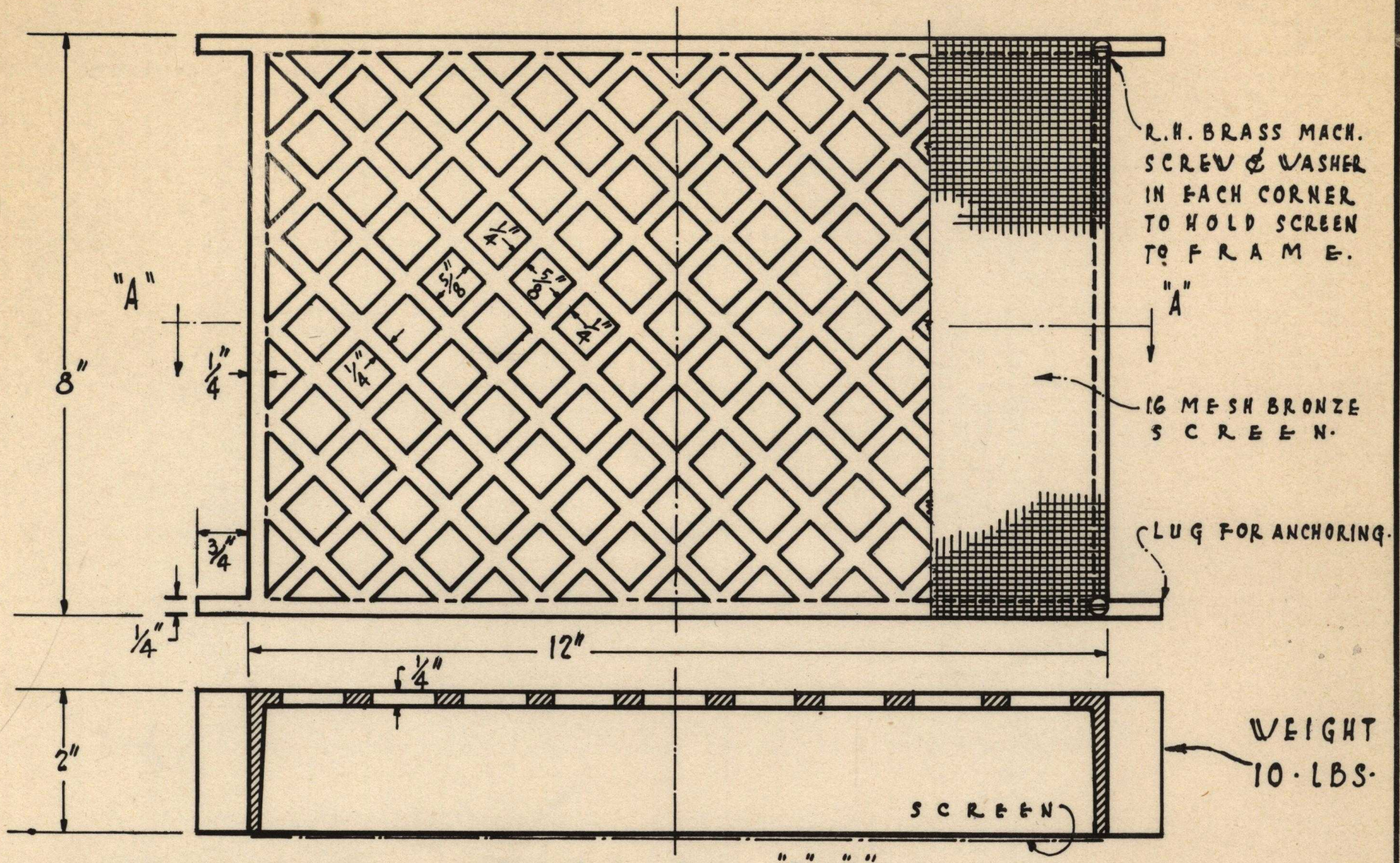


[AS SPECIFIED BY U.S. WAR DEPARTMENT CONSTRUCTING QUARTERMASTER DIVISION]

CAST IRON INLET FRAMES WITH GRATINGS & SOLID COVER

CAST IRON · FOUNDATION VENT BLOCK.

WITH 16 MESH BRONZE SCREEN ATTACHED
AS SPECIFIED FOR U.S.O. RECREATION CENTERS.



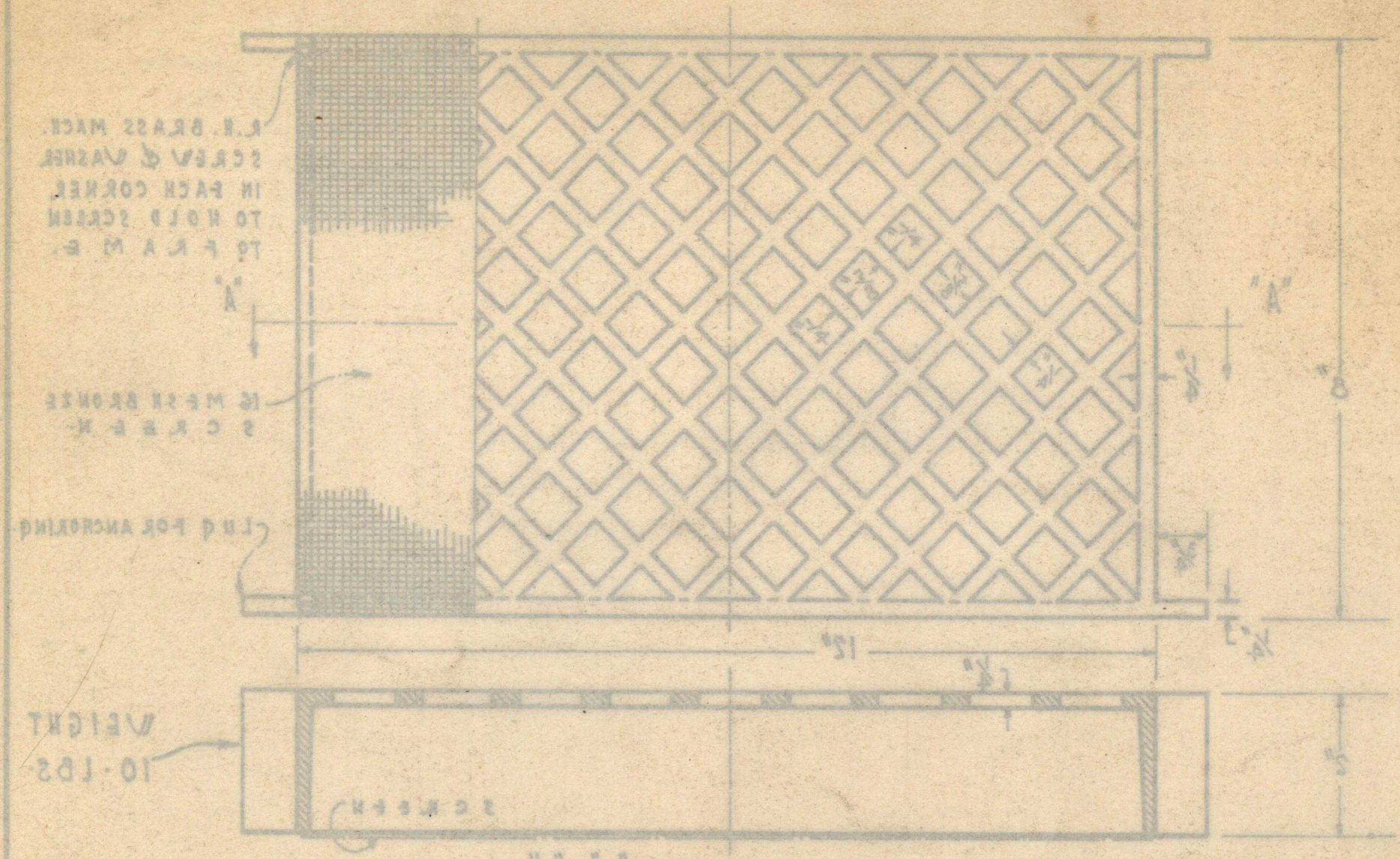
PATTERN · Nº 699

SECTION "A" - "A"

SCALE 6" = 1 FT.

CONTRACTORS FOUNDRY INC., PHILA. PA.

DATA SHEET · CQM · Nº 6

CAST IRON · FOUNDATION VENT BLOCK.

WITH 16 MESH BRONZE SCREEN ATTACHED
AS SPECIFIED FOR U.S.G. RECREATION CENTERS.